

MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer
	Ta=25°C											
	VDS	ID	RDS(on)					Ciss	Qg	PD		
			VGS = 10V	VGS = 4,5V	VGS = 4,0V	VGS = 2,5V	VGS = 1,8V					
[8V]			[5V]	[5V]	[5V]	[5V]						
	[V]	[A]	max	max	max	max	max	[pF]	[nC]	[W]		
			[Ω]	[Ω]	[Ω]	[Ω]	[Ω]					
SOT563												
SCH1417	15	1.8			0.16	0.24		105	1.86	0.65	SOT563	SANYO/ONS
SCH1406	20	1.7				0.28	0.39	100	4.5	0.8	SOT563	SANYO/ONS
SCH1410	20	2			0.15	0.2		190	2.7	0.8	SOT563	SANYO/ONS
SCH1416	20	2	0.16		0.44			77	2.9	0.8	SOT563	SANYO/ONS
SCH1402	20	3				0.102	0.133	280	8.8	0.8	SOT563	SANYO/ONS
SCH1412	30	1.4	0.3		0.56			65	2.5	0.8	SOT563	SANYO/ONS
SCH1419	30	1.5			0.215	0.295		130	2.2	0.8	SOT563	SANYO/ONS
SCH1411	30	2	0.17		0.285			120	3.6	0.8	SOT563	SANYO/ONS
SCH1404	30	2.5	0.11		0.175			180	4.9	0.8	SOT563	SANYO/ONS
SOT323												
MCH3456	15	1.8			0.16	0.24		105	1.86	0.8	SOT323	SANYO/ONS
MCH3447	20	1.2	0.32		0.675			38	2.1	0.6	SOT323	SANYO/ONS
MCH3405	20	1.8				0.28	0.39	100	4.5	0.8	SOT323	SANYO/ONS
MCH3445	20	2				0.235	0.34	120	2.3	0.8	SOT323	SANYO/ONS
MCH3409	20	2			0.13	0.18		190	2.7	0.9	SOT323	SANYO/ONS
MCH3446	20	2.5				0.135	0.198	270	4	0.9	SOT323	SANYO/ONS
MCH3406	20	3				0.082	0.11	280	8.8	1	SOT323	SANYO/ONS
MCH3427	20	4				0.076	0.11	400	6	1	SOT323	SANYO/ONS
3LN01M	30	0.15			3.7	5.2		7	1.58	0.15	SOT323	SANYO/ONS
3HN04MH	30	0.3			0.9	2.2		22	1.68	0.6	SOT323	SANYO/ONS
3LN03M	30	0.35			0.9	1.15		30	1	0.15	SOT323	SANYO/ONS
MCH3435	30	0.7			0.9	1.15		30	1	0.6	SOT323	SANYO/ONS
MCH3408	30	1.4	0.3		0.56			65	2.5	0.8	SOT323	SANYO/ONS
MCH3443	30	1.5			0.215	0.295		130	2.2	0.8	SOT323	SANYO/ONS
MCH3459	30	1.8	0.195		0.41			95	3.2	0.8	SOT323	SANYO/ONS
MCH3410	30	2	0.15		0.27			120	3.6	0.9	SOT323	SANYO/ONS
MCH3444	30	2.5			0.108	0.15		270	3.7	0.9	SOT323	SANYO/ONS
MCH3460	30	2.5	0.105		0.21			187	5.2	0.9	SOT323	SANYO/ONS
MCH3411	30	3			0.09	0.118		270	3.7	1	SOT323	SANYO/ONS
MCH3412	30	3	0.084		0.15			180	4.9	1	SOT323	SANYO/ONS
MCH3431	30	3.5			0.072	0.098		415	5.1	1	SOT323	SANYO/ONS
5LN01M	50	0.1			7.8	9.9		6.6	1.57	0.15	SOT323	SANYO/ONS
5HN01M	50	0.1			7.5	10.5		6.2	1.4	0.15	SOT323	SANYO/ONS
MCH3414	60	1	0.63		0.9			70	3	0.8	SOT323	SANYO/ONS
MCH3415	60	1.5	0.315		0.56			150	4.8	0.9	SOT323	SANYO/ONS
MCH3416	60	1.8	0.22		0.3			220	6.4	1	SOT323	SANYO/ONS
MCH3420	100	0.5	1.85		2.5			80	3.2	0.8	SOT323	SANYO/ONS
MCH3421	100	0.8	0.89		1.2			165	4.8	0.9	SOT323	SANYO/ONS
WSOF-6												
UPA621TT-E1/E2	20	5			0.050	0.053	0.079			0.2	WSOF-6	RENESAS
UPA620TT-E1/E2	20	5			0.038	0.039	0.054			0.2	WSOF-6	RENESAS
UPA622TT-E1/E2	30	3	0.082		0.120	0.139				0.2	WSOF-6	RENESAS
SOT23												
CPH3417	20	1.8				0.28	0.39	100	4.5	0.9	SOT23	SANYO/ONS
CPH3413	20	2.2			0.13	0.18		190	2.7	1	SOT23	SANYO/ONS
RQK0204TGDQA	20	2.3	-	0.13		0.204		127		0.8	SOT23	RENESAS
RQK0203SGDQA	20	2.9	-	0.09		0.15		160		-	SOT23	RENESAS
RQK0202RGDQA	20	3.8	-	0.055		0.085		293		-	SOT23	RENESAS
2SK3576	20	4		0.05	0.053	0.075					SOT23	RENESAS
CPH3437	20	4.5			0.039	0.055		755	9.9	1	SOT23	SANYO/ONS
RQK0201QGDQA	20	4.5	-	0.039		0.053		500		0.8	SOT23	RENESAS
CPH3440	20	7			0.022	0.029		1305	17.2	1.2	SOT23	SANYO/ONS
3LN01C	30	0.15			3.7	5.2		7	1.58	0.25	SOT23	SANYO/ONS
3LN02C	30	0.3			1.2	1.7		30	2.34	0.25	SOT23	SANYO/ONS
CPH3418	30	1.4	0.3		0.56			65	2.5	0.9	SOT23	SANYO/ONS
CPH3414	30	2.2	0.15		0.27			120	3.6	1	SOT23	SANYO/ONS
2SK3105	30	2.5	0.095	0.135	0.15						SOT23	RENESAS
RQK0302GGDQA	30	2.7	0.115	0.171				175		0.8	SOT23	RENESAS
CPH3445	30	3.5	0.068		0.125			295	7.2	1	SOT23	SANYO/ONS
2SK3577-T1B/T2B	30	3.5		0.063	0.065	0.091				0.2	SOT23	RENESAS
RQK0303MGDQA	30	3.7	0.053	0.07				550		0.8	SOT23	RENESAS
CPH3438	30	4.5	0.043		0.087			526	11.3	1	SOT23	SANYO/ONS
CPH3442	30	6.5			0.024	0.031		1295	16.1	1.2	SOT23	SANYO/ONS
2SK3000	40	1	0.3		0.5			14		0.4	SOT23	RENESAS
2SK3408-T1B/T2B	43	1	0.195	0.250	0.260					1.25	SOT23	RENESAS
5LN01C	50	0.1			7.8	9.9		6.6	1.57	0.25	SOT23	SANYO/ONS
5HN01C	50	0.1			7.5	10.5		6.2	1.4	0.25	SOT23	SANYO/ONS
5LN02C	50	0.2			2.4	3		25	2.18	0.25	SOT23	SANYO/ONS
5HN02C	50	0.2			2.3	3.2		22	1.86	0.25	SOT23	SANYO/ONS
CPH3422	60	1	0.63		0.9			70	3	0.9	SOT23	SANYO/ONS
CPH3423	60	1.5	0.31		0.45			150	4.8	1	SOT23	SANYO/ONS
RQK0606KGDQA	60	1.5	-	0.225		0.29		200		0.8	SOT23	RENESAS
CPH3424	60	1.8	0.22		0.3			220	6.4	1	SOT23	SANYO/ONS
CPH3430	60	2			0.22	0.27		325	4.2	1	SOT23	SANYO/ONS
RQK0603CGDQA	60	2	0.265	0.348				130		0.8	SOT23	RENESAS
RQK0604IGDQA	60	2	-	0.144		0.18		320		0.8	SOT23	RENESAS
RQK0605JGDQA	60	3.1	0.103	0.131				405		0.8	SOT23	RENESAS
CPH3425	100	0.5	1.85		2.5			80	3.2	0.9	SOT23	SANYO/ONS
CPH3426	100	0.8	0.89		1.2			165	4.8	1	SOT23	SANYO/ONS
CPH3427	100	1	0.63		0.81			240	6.5	1	SOT23	SANYO/ONS
RQK2001HQDQA	200	0.4	6.7		-			30		0.8	SOT23	RENESAS
CPH3431	200	0.6	2.4		2.8			340	7	1	SOT23	SANYO/ONS
RQK2501VGDQA	250	0.4	-		5.4	5.6		80		0.8	SOT23	RENESAS
N2500N-T1B/T2B	250	0.5		5.800						1.25	SOT23	RENESAS
2SK4147-T1B/T2B	250	0.5	4.500	5.200	6.000					1.25	SOT23	RENESAS
2SK4035-T1/T2	250	0.5	4.5							0.2	SOT23	RENESAS
2SK3072	450	0.03	275		300			20	-	0.25	SOT23	SANYO/ONS

NP = Automotive AEC-Q101

SOT563
SCH6
SC89-6

SOT323
MCPH3
SC703
UMT3

MOSFET

WSOF-6

SOT23
MPAK
CPH3
SC96
SC59
T0236
SMT3

MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer
	Ta=25°C											
	VDS	ID	RDS(on)					Ciss	Qg	PD		
			VGS = 10V	VGS = 4,5V	VGS = 4,0V	VGS = 2,5V	VGS = 1,8V					
[8V]			[5V]	[4,0V]	[2,5V]	[1,8V]						

SOT23-6

Type No.	VDS [V]	ID [A]	RDS(on) [Ω]	RDS(on) [Ω]	RDS(on) [Ω]	RDS(on) [Ω]	RDS(on) [Ω]	Ciss [pF]	Qg [nC]	PD [W]	Package	Manufacturer	
CPH6415	20	4					0,088	0,12	280	5	1,6	SOT23-6	SANYO/ONS
CPH6413	20	5				0,041	0,054		570	7,6	1,6	SOT23-6	SANYO/ONS
CPH6411	20	6				0,026	0,037		1200	13	1,6	SOT23-6	SANYO/ONS
RJK0204DPA	25	50	0,003	0,004					3030			SOT23-6	RENESAS
RJK0213DPA	25	60	0,002	0,003					4020			SOT23-6	RENESAS
RJK0208DPA	25	65	0,002	0,003					5350			SOT23-6	RENESAS
RJK0206DPA	25	70	0,002	0,003					6790			SOT23-6	RENESAS
CPH6416	30	4	0,084			0,15			180	4,9	1,6	SOT23-6	SANYO/ONS
CPH6414	30	5	0,048			0,088			370	8,5	1,6	SOT23-6	SANYO/ONS
CPH6412	30	6	0,033			0,049			690	16	1,6	SOT23-6	SANYO/ONS
HAT2199WP	30	15	0,016	0,024					1060	10		SOT23-6	RENESAS
RJK0368DPA	30	20	0,014	0,024					730			SOT23-6	RENESAS
RJK0366DPA-00	30	25	0,01	0,016					1010			SOT23-6	RENESAS
HAT2198WP	30	25	0,009	0,013					1650	15		SOT23-6	RENESAS
RJK0365DPA-02	30	30	0,008	0,013					1180			SOT23-6	RENESAS
RJK0355DPA	30	30	0,011	0,017					860			SOT23-6	RENESAS
RJK0395DPA	30	30	0,008	0,011					1670			SOT23-6	RENESAS
RJK0396DPA	30	30	0,009	0,013					1330			SOT23-6	RENESAS
RJK0397DPA	30	30	0,010	0,015					1110			SOT23-6	RENESAS
RJK03B7DPA-00	30	30	0,008	0,011					1670			SOT23-6	RENESAS
RJK03B8DPA-00	30	30	0,009	0,013					1330			SOT23-6	RENESAS
RJK03B9DPA	30	30	0,011	0,015					1110			SOT23-6	RENESAS
RJK03F0DPA	30	30	[0,0064]	0,008					2150			SOT23-6	RENESAS
RJK0364DPA-00	30	35	0,007	0,011					1600			SOT23-6	RENESAS
RJK03E6DPA	30	35	[0,0046]	0,006					2670			SOT23-6	RENESAS
RJK03E9DPA	30	35	[0,0043]	0,005					3100			SOT23-6	RENESAS
HAT2197WP	30	35	0,006	0,009					2650	20		SOT23-6	RENESAS
RJK0353DPA	30	35	0,005	0,008					2180			SOT23-6	RENESAS
RJK0394DPA	30	35	0,005	0,007					2430			SOT23-6	RENESAS
RJK03E5DPA	30	40	[0,0039]	0,005					3370			SOT23-6	RENESAS
RJK03E8DPA	30	40	[0,0035]	0,004					4100			SOT23-6	RENESAS
HAT2195WP	30	40	0,005	0,008					3400	25		SOT23-6	RENESAS
RJK0316DPA	30	40	0,006	0,009					2080	45		SOT23-6	RENESAS
RJK0351DPA	30	40	0,004	0,006					2750			SOT23-6	RENESAS
RJK0381DPA	30	40	0,005	0,007					2200			SOT23-6	RENESAS
RJK0393DPA	30	40	0,004	0,006					3270			SOT23-6	RENESAS
RJK03A4DPA	30	42	0,004	0,006					2400			SOT23-6	RENESAS
RJK03E4DPA	30	45	[0,0034]	0,004					4300			SOT23-6	RENESAS
RJK03E7DPA	30	45	[0,0028]	0,003					5390			SOT23-6	RENESAS
RJK0349DPA	30	45	0,003	0,004					3850			SOT23-6	RENESAS
RJK0380DPA	30	45	0,003	0,005					3350			SOT23-6	RENESAS
RJK0392DPA	30	45	0,004	0,005					4260			SOT23-6	RENESAS
RJK03C5DPA	30	50	0,003	0,004					3110			SOT23-6	RENESAS
RJK0348DPA	30	50	0,003	0,004					5100			SOT23-6	RENESAS
RJK0379DPA	30	50	0,002	0,003					5150			SOT23-6	RENESAS
RJK0391DPA	30	50	0,003	0,004					5600			SOT23-6	RENESAS
RJK0346DPA	30	65	0,002	0,003					7650			SOT23-6	RENESAS
RJK0390DPA	30	65	0,002	0,003					8900			SOT23-6	RENESAS
RJK03C0DPA	30	70	0,002	0,003					11000			SOT23-6	RENESAS
CPH6429	60	2				0,22	0,27		325	4,2	1,6	SOT23-6	SANYO/ONS
CPH6424	60	3	0,145			0,215			266	7,8	1,6	SOT23-6	SANYO/ONS
HAT2244WP	80	30	0,013	0,016					3520	25		SOT23-6	RENESAS
CPH6428	100	2,5	0,22			0,31			440	13	1,6	SOT23-6	SANYO/ONS
RJK1028DPA	100	4	0,165	0,18					450	10		SOT23-6	RENESAS
HAT2201WP	100	15	0,043			0,049(8V)			1445	15		SOT23-6	RENESAS
HAT2200WP	100	20	0,028			0,033(8V)			2390	20		SOT23-6	RENESAS
RJK1212DPA	120	3	0,31	0,34					450	15		SOT23-6	RENESAS
RJK1211DPA	120	5	0,13	0,15					1070	15		SOT23-6	RENESAS
HAT2185WP	150	10	0,19						430			SOT23-6	RENESAS
HAT2184WP	150	14	0,11						710	25		SOT23-6	RENESAS
HAT2299WP	150	14	0,11						710			SOT23-6	RENESAS
HAT2183WP	150	20	0,064						1200	30		SOT23-6	RENESAS
RJK1555DPA	150	25	0,048						2400			SOT23-6	RENESAS
RJK1557DPA	150	25	0,058						1250			SOT23-6	RENESAS
HAT2189WP	200	8,5	0,27						430			SOT23-6	RENESAS
HAT2188WP	200	12	0,157						710	12		SOT23-6	RENESAS
HAT2187WP	200	17	0,094						1200	30		SOT23-6	RENESAS
HAT2287WP	200	17	0,094						1200			SOT23-6	RENESAS
RJK2055DPA	200	20	0,069						2400			SOT23-6	RENESAS
RJK2057DPA	200	20	0,085						1250			SOT23-6	RENESAS
HAT2089WP	250	5	0,63						450			SOT23-6	RENESAS
HAT2193WP	250	7	0,4						430			SOT23-6	RENESAS
HAT2192WP	250	10	0,23						710	25		SOT23-6	RENESAS
HAT2191WP	250	14	0,138						1200			SOT23-6	RENESAS
RJK2555DPA	250	17	0,104						2400			SOT23-6	RENESAS
RJK2557DPA	250	17	0,128						1250			SOT23-6	RENESAS

SOT89

Type No.	VDS [V]	ID [A]	RDS(on) [Ω]	RDS(on) [Ω]	RDS(on) [Ω]	RDS(on) [Ω]	RDS(on) [Ω]	Ciss [pF]	Qg [nC]	PD [W]	Package	Manufacturer	
2SK3487	20	8				0,033	0,047		1000	14	3,5	SOT89	SANYO/ONS
2SK1584-T1/T2	30	0,5	1,500			2,000					2	SOT89	RENESAS
2SK1586-T1/T2	30	1	0,6			1					2	SOT89	RENESAS
2SK3488	30	2,5	0,16			0,28			120	3,6	3,5	SOT89	SANYO/ONS
RQK0302GGDQS	30	3,8	0,102	0,15					170		1,5	SOT89	RENESAS
RQK0301FGDQS	30	6	0,035	0,049					750		1,5	SOT89	RENESAS
2SK3489	30	8	0,048			0,088			370	8,5	3,5	SOT89	SANYO/ONS
2SK3490	30	8	0,039			0,056			690	16	3,5	SOT89	SANYO/ONS
2SK1697	60	0,5	1,7			2,5			33			SOT89	RENESAS
2SK3944	60	2	0,34			0,48			150	4,8	3,5	SOT89	SANYO/ONS
2SK2159-T1/T2	60	2				0,3	0,5				2	SOT89	RENESAS
2SK2788	60	2	0,16			0,25			180		1	SOT89	RENESAS
RQK0607AQDQS	60	2,4		0,27			0,35		170		1,5	SOT89	RENESAS

NP = Automotive AEC-Q101



SOT23-6
SOT24
SSOT4
CPH6



MOSFET



SOT89
UPAK
PCP
SC-62
MTP3

MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer
	Ta=25°C											
	VDS	ID	RDS(on)					Ciss	Qg	PD		
			VGS = 10V	VGS = 4,5V	VGS = 4,0V	VGS = 2,5V	VGS = 1,8V					
[8V]			[5V]	[4,0V]	[2,5V]	[1,8V]						
	[V]	[A]	max	max	max	max	max	[pF]	[nC]	[W]		
			[Ω]	[Ω]	[Ω]	[Ω]	[Ω]					
RQK0603CGDQS	60	2.8	0.257	0.336				130		1.5	SOT89	RENESAS
RQK0608BQDQS	60	3.2	-	0.155			0.195	300		1.5	SOT89	RENESAS
2SK2857-T1/T2	60	4	0.150		0.220					2	SOT89	RENESAS
2SK3614	60	4	0.145		0.215			300	7.8	3.5	SOT89	SANYO/ONS
RQK0609CQDQS	60	4	-	0.1			0.125	470		1.5	SOT89	RENESAS
RQK0601AGDQS	60	5	0.07	0.091				540		1.5	SOT89	RENESAS
2SK2110-T1/T2	100	0.5	1.200		1.500					2	SOT89	RENESAS
2SK2112-T1/T2	100	1	0.800		1.200					2	SOT89	RENESAS
2SK2260	150	1.2	2.2		-			80	-	3.5	SOT89	SANYO/ONS
2SK2951	200	1	3.5		-			60	-	3.5	SOT89	SANYO/ONS
RQHC6140-5DWA	200	1	3.8		-			80	-	1	SOT89	RENESAS
2SK2167	250	0.4	12		-			37	-	3.5	SOT89	SANYO/ONS

TSSOP8

UPA1820GR-9JG-E1/E2	20	12		0.086	0.088	0.012				2	TSSOP8	RENESAS
HAT2051T	30	1	-		0.2	0.3		155		1.2	TSSOP8	RENESAS
FTS2051	30	4.5	0.055		0.09			370	8.5	1.2	TSSOP8	SANYO/ONS
UPA1804GR-9JG-E1/E2	30	8	0.023	0.032						2	TSSOP8	RENESAS
UPA1809GR-9JG-E1/E2	30	8	0.021	0.029	0.039					2	TSSOP8	RENESAS
UPA1803GR-9JG-E1/E2	30	8	0.012	0.016						2	TSSOP8	RENESAS
UPA1808GR-9JG-E1/E2	30	9.5	0.017	0.023	0.026					2	TSSOP8	RENESAS
UPA1807GR-9JG-E1/E2	30	12	0.010	0.014	0.016					2	TSSOP8	RENESAS
UPA1806GR-9JG-E1/E2	30	13	0.009	0.010	0.013					2	TSSOP8	RENESAS
FTS2052	60	2.5	0.145		0.215			300	7.8	1.2	TSSOP8	SANYO/ONS
HAT2050T	100	1	0.75		1			90		1.5	TSSOP8	RENESAS
FTS2053	100	2	0.22		0.31			530	13	1.3	TSSOP8	SANYO/ONS
HAT2105T	200	0.5	2.2		2.7			120		-	TSSOP8	RENESAS
HAT2085T	200	1.4	0.64		-			300		1.3	TSSOP8	RENESAS
UPA1840GR-9JG-E1/E2	200	2.2	0.500		-					2	TSSOP8	RENESAS
HAT2080T	250	1.2	0.85		-			300		1.3	TSSOP8	RENESAS

S08

HAT2057RA	20	4	-		0.033		0.06(1.5V)	1100		2/3	S08	RENESAS
UPA1725G-E1/E2	20	7		0.021	0.022	0.030				2	S08	RENESAS
HAT2027R	20	7	-		0.038	0.053		720		3	S08	RENESAS
UPA1724G-E1/E2	20	10		0.011	0.012	0.015				2	S08	RENESAS
HAT2026R	20	11	-		0.015	0.021		1760		2.5	S08	RENESAS
UPA1726G-E1/E2	20	12		0.009	0.010	0.012				2	S08	RENESAS
UPA1723G-E1/E2	20	13		0.006	0.007	0.009				2	S08	RENESAS
RJK0202DSP	20	16	-	0.006		0.009		3650		2	S08	RENESAS
HAT2029R	28	7.5	-		0.033	0.043		780		3	S08	RENESAS
HAT2108R	28	11	-		0.015	0.022		2200		2	S08	RENESAS
HAT2103R	30	4.5	0.065	0.13				220		-	S08	RENESAS
HAT2024R	30	5.5	0.065		0.11			310		3	S08	RENESAS
HAT2016R	30	6.5	0.045		0.08			560		3	S08	RENESAS
HAT2280R	30	6.6	0.034	0.057				410		-	S08	RENESAS
FSS250	30	7	0.033		0.054			530	10	1.8	S08	SANYO/ONS
HAT2209R	30	7	0.032		0.055			365		-	S08	RENESAS
HAT2276R	30	7.5	0.026	0.037				630		-	S08	RENESAS
FSS242	30	8	0.026		0.04			750	14	1.8	S08	SANYO/ONS
UPA2755AGR-E1/E2	30	8	0.018	0.029						1.7	S08	RENESAS
RJK0371DSP-00	30	8	0.022	0.031				590		-	S08	RENESAS
UPA2761UGR-E1/E2*	30	9	0.018	0.030						2.5	S08	RENESAS
RJK0369DSP	30	9	0.016	0.023				810		-	S08	RENESAS
FSS244	30	10	0.017		0.028			980	17	2	S08	SANYO/ONS
FSS262	30	10	0.016		0.023			1700	33	1.8	S08	SANYO/ONS
RJK0317DSP	30	10	0.018	0.028				640		1.8	S08	RENESAS
UPA2706GR-E1/E2	30	11	0.015	0.022	0.029					2	S08	RENESAS
HAT2022R	30	11	0.015		0.025			1450		2.5	S08	RENESAS
RJK0366DSP	30	11	0.012	0.018				990		-	S08	RENESAS
FSS234	30	12	0.013		0.019			1450	28	2	S08	SANYO/ONS
FSS802	30	12	0.013		0.021			2300	33	3	S08	SANYO/ONS
UPA2762UGR-E1/E2*	30	12	0.013	0.022						2.5	S08	RENESAS
RJK0355DSP	30	12	0.011	0.017				860		-	S08	RENESAS
UPA2709AGR-E1/E2	30	13	0.011	0.015						1.1	S08	RENESAS
UPA2709GR-E1/E2	30	13	0.010	0.015						1.1	S08	RENESAS
UPA2728GR-E1/E2	30	13	0.010	0.018						2.5	S08	RENESAS
FSS804	30	14	0.01		0.016			3000	50	3.3	S08	SANYO/ONS
UPA2720AGR-E1/E2	30	14	0.007	0.010						2.5	S08	RENESAS
RJK0316DSP	30	16	0.006	0.009				2080		-	S08	RENESAS
RJK0354DSP	30	16	0.007	0.010				1740		-	S08	RENESAS
UPA2708AGR-E1/E2	30	17	0.005	0.007						1.1	S08	RENESAS
RJK0352DSP	30	18	0.006	0.008				2440		-	S08	RENESAS
RJK0353DSP	30	18	0.006	0.008				2180		-	S08	RENESAS
UPA2721AGR-E1/E2	30	19	0.004	0.006						2.5	S08	RENESAS
RJK0349DSP	30	20	0.004	0.005				3850		-	S08	RENESAS
RJK0351DSP	30	20	0.005	0.007				2560		-	S08	RENESAS
UPA2722UGR-E1/E2	30	21	0.003	0.004						2.5	S08	RENESAS
UPA2722GR-E1/E2	30	21	0.003		0.005					4.6	S08	RENESAS
RJK0348DSP	30	22	0.003	0.005				5100		-	S08	RENESAS
FW216	35	3.5	0.09		0.196			260	6	1.6	S08	SANYO/ONS
FSS218	35	8	0.026		0.054			1050	19	1.8	S08	SANYO/ONS
UPA2741GR-E1/E2	35	14	0.007							1.1	S08	RENESAS
FW248	45	6	0.034		0.059			1040	23	1.8	S08	SANYO/ONS
FSS273	45	8	0.022		0.034			2225	40	2.4	S08	SANYO/ONS
HAT2028RJ	60	4	0.1		0.16			280		3	S08	RENESAS
HAT2038RJ	60	5	0.058		0.084			520		3	S08	RENESAS
HAT2114RJ-EL-E	60	6	0.032	0.05				1000		2/3	S08	RENESAS
HAT2153RJ-EL-E	60	6	0.032	0.05				1000		2/3	S08	RENESAS
HAT2275R	60	6.6	0.032	0.043				1210		-	S08	RENESAS
HAT2033RJ	60	7	0.038		0.053			740		2.5	S08	RENESAS
HAT2256R	60	8	0.03	0.041				1210		-	S08	RENESAS
UPA1728G-E1/E2	60	9	0.026	0.029	0.034					2	S08	RENESAS

NP = Automotive AEC-Q101

SOT89
UPAK
PCP
SC-62
MTP3

TSSOP8

MOSFET

S08

MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer
	Ta=25°C											
	VDSS	ID	RDS(on)					Ciss	Qg	PD		
			VGS = 10V	VGS = 4.5V	VGS = 4.0V	VGS = 2.5V	VGS = 1.8V					
[8V]			[5V]	[4.0V]	[2.5V]	[1.8V]						
	[V]	[A]	max [Ω]	max [Ω]	max [Ω]	max [Ω]	max [Ω]	[pF]	[nC]	[W]		
UPA1727G-E1/E2	60	10	0.019	0.022	0.025					2	S08	RENESAS
HAT2215R	80	3.4	0.115	0.145				400		2.2	S08	RENESAS
RJK1028DSP	100	3	0.165	0.18				450		1.8	S08	RENESAS
FSS264	100	4	0.085		0.112			1560	34	2.4	S08	SANYO/ONS
HAT2058R	100	4	0.145		0.18			420		3	S08	RENESAS
HAT2201R	100	6	0.043					1445		-	S08	RENESAS
HAT2200R	100	8	0.028					2390		-	S08	RENESAS
HAT2105R	200	0.5	2.2		2.7			120		-	S08	RENESAS
HAT2085R	200	2	0.64					300		2.5	S08	RENESAS
HAT2088R	200	2	0.44					450		2.5	S08	RENESAS
HAT2077R	200	3	0.235					830		2.5	S08	RENESAS
HAT2080R	250	1.7	0.85					300		2.5	S08	RENESAS
HAT2089R	250	2	0.6					450		2.5	S08	RENESAS
HAT2087R	250	2.5	0.31					830		2.5	S08	RENESAS
HAT2131R	350	0.9	3		3.2			460		-	S08	RENESAS
HAT2220R	450	0.7	6.5					140		-	S08	RENESAS
HAT2226R	600	0.1	52					25		-	S08	RENESAS
HAT2179R	600	0.7	4.5					280		-	S08	RENESAS



HSOP8

UPA2706TP-E1/E2	30	20	0.015	0.023	0.029					15	HSOP8	RENESAS
UPA2702TP-E1/E2	30	35	0.010	0.015	0.017					22	HSOP8	RENESAS
UPA2701TP-E1/E2	30	35	0.008	0.012	0.014					28	HSOP8	RENESAS
UPA2708TP-E1/E2	30	40	0.006	0.008						34	HSOP8	RENESAS
UPA2707TP-E1/E2	30	42	0.004	0.006						40	HSOP8	RENESAS
UPA1744TP-E1/E2	100	10	0.03							39	HSOP8	RENESAS
UPA1740TP-E1/E2	200	7	0.440							22	HSOP8	RENESAS
UPA1741TP-E1/E2	250	5	0.790							21	HSOP8	RENESAS
UPA1742TP-E1/E2	250	7	0.550							24	HSOP8	RENESAS
UPA1743TP-E1/E2	250	8	0.450							26	HSOP8	RENESAS

HS08

NP13N04YUG-E1/E2*	40	13	0.025							43	HS08	RENESAS
NP35N04YLG-E1/E2*	40	35	0.010	[0.014]						77	HS08	RENESAS
NP35N04YUG-E1/E2*	40	35	0.01							77	HS08	RENESAS
NP74N04YUG-E1/E2	40	75	0.006							120	HS08	RENESAS
NP75N04YUG-E1/E2	40	75	0.005							138	HS08	RENESAS
NP23N06YDG-E1/E2	60	23	0.027	[0.040]						60	HS08	RENESAS
NP33N06YDG-E1/E2	60	33	0.014	[0.019]						97	HS08	RENESAS
NP33N075YDF-E1/E2*	75	33	0.028	0.035						tdb	HS08	RENESAS
NP75N10YDF-E1/E2*	100	75	0.025	0.036						tdb	HS08	RENESAS

HVSON8

UPA2727UT1A-E1/E2	30	16	0.010	0.015						4.7	HVSON8	RENESAS
UPA2726UT1A-E1/E2	30	20	0.007	0.011						4.6	HVSON8	RENESAS
UPA2725UT1A-E1/E2	30	25	0.005	0.008						4.5	HVSON8	RENESAS
UPA2749UT1A-E1/E2	30	25	0.008	0.015						4.6	HVSON8	RENESAS
UPA2725T1A-E1/E2	30	25	0.005	0.008						4.6	HVSON8	RENESAS
UPA2749UT1A-E1/E2	30	25	0.010	0.015						62.5	HVSON8	RENESAS
UPA2743T1A-E1/E2	30	29	0.003	0.005						4.6	HVSON8	RENESAS
UPA2722UT1A-E1/E2	30	29	0.003	0.005						4.6	HVSON8	RENESAS
UPA2724UT1A	30	29	0.0033	0.0050							HVSON8	RENESAS
UPA2723UT1A-E1/E2	30	33	0.003	0.004						4.6	HVSON8	RENESAS
UPA2747UT1A-E1/E2	30	40	0.005	0.007						83	HVSON8	RENESAS
UPA2746UT1A-E1/E2	30	45	0.003	0.005						83	HVSON8	RENESAS
UPA2745UT1A-E1/E2	30	50	0.003	0.004						83	HVSON8	RENESAS
UPA2744UT1A-E1/E2	30	65	0.002	0.003						83	HVSON8	RENESAS
NP35N04YUG*	40	35	0.01					1900	34		HVSON8	RENESAS
NP74N04YUG*	40	75	0.006					3500	64		HVSON8	RENESAS
NP75N04YUG*	40	75	0.005					4300	77		HVSON8	RENESAS
NP23N06YDG*	60	23	0.027	0.037 1)				1250	26		HVSON8	RENESAS
NP33N06YDG*	60	33	0.014					2600	52		HVSON8	RENESAS
UPA2763T1A-E1/E2*	100	10								4.6	HVSON8	RENESAS

miniHVSON8

UPA2805UT1A-E1/E2*	30	25	0.010	0.015						62.5	miniHVSON8	RENESAS
UPA2804T1L-E1/E2*	30	28	0.007	0.015						tdb	miniHVSON8	RENESAS
UPA2807T1L-E1/E2*	30	tdb	0.005	tdb						tdb	miniHVSON8	RENESAS
UPA2806T1L-E1/E2*	100	6	0.006							3.8	miniHVSON8	RENESAS

HWSON8

UPA2502TM-E1/E2	30	13	0.012	0.018						2.7	HWSON8	RENESAS
RJK03E3DNS	30	14	0.012	0.018				750		-	HWSON8	RENESAS
RJK03F9DNS	30	14	-	0.014				1000		-	HWSON8	RENESAS
RJK03E2DNS	30	16	0.009	0.013				1100		-	HWSON8	RENESAS
RJK03F8DNS	30	16	-	0.010				1500		-	HWSON8	RENESAS
UPA2503TM-E1/E2	30	16	0.009	0.015						2.7	HWSON8	RENESAS
RJK03E1DNS	30	25	0.007	0.010				1640		-	HWSON8	RENESAS
RJK03F7DNS	30	25	-	0.008				2200		-	HWSON8	RENESAS
RJK03E0DNS	30	30	0.006	0.008				2180		-	HWSON8	RENESAS
RJK03F6DNS	30	30	-	0.006				3000		-	HWSON8	RENESAS
RJK1028DNS	100	4	0.165	0.18				450		10	HWSON8	RENESAS
RJK1212DNS	120	3	0.31	0.34				450		10	HWSON8	RENESAS
RJK1211DNS	120	5	0.13	0.15				1070		10	HWSON8	RENESAS

MiniHVSON8

UPA2802T1L-E1/E2	20	18	0.006	0.010						1.5	mini-HVSON8	RENESAS
UPA2803T1L-E1/E2	20	20	0.006	0.009						1.5	mini-HVSON8	RENESAS
UPA2801T1L-E1/E2	30	16	0.010	0.015						1.5	mini-HVSON8	RENESAS
UPA2800T1L-E1/E2	30	17	0.007	0.010						1.5	mini-HVSON8	RENESAS

* Heat sink bottom side NP = Automotive AEC-Q101

MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics									Package	Manufacturer	
	Ta=25°C											
	VDS	ID	RDS(on)					Ciss	Qg			PD
			VGS = 10V	VGS = 4,5V	VGS = 4,0V	VGS = 2,5V	VGS = 1,8V					
[8V]			[5V]	[4,0V]	[2,5V]	[1,8V]						
[V]	[A]	max	max	max	max	max	[pF]	[nC]	[W]			
		[Ω]	[Ω]	[Ω]	[Ω]	[Ω]						

S08-Flat

RJK0368DPA	30	20	0,0143	0,024					730		S08-Flat	RENESAS
RJK0366DPA	30	25	0,011	0,0158					990		S08-Flat	RENESAS
RJK0355DPA	30	30	0,0107	0,0165					860		S08-Flat	RENESAS
RJK03B9DPA	30	30	0,0106	0,0151					1110		S08-Flat	RENESAS
RJK0397DPA	30	30	0,0101	0,0146					1110		S08-Flat	RENESAS
RJK03B8DPA	30	30	0,0093	0,0129					1330		S08-Flat	RENESAS
RJK0365DPA	30	30	0,0091	0,0134					1180		S08-Flat	RENESAS
RJK0396DPA	30	30	0,009	0,0126					1330		S08-Flat	RENESAS
RJK03B7DPA	30	30	0,0778	0,0107					1670		S08-Flat	RENESAS
RJK0364DPA	30	35	0,0078	0,0112					1600		S08-Flat	RENESAS
RJK0395DPA	30	35	0,0077	0,0106					1670		S08-Flat	RENESAS
RJK0353DPA	30	35	0,0052	0,0076					2180		S08-Flat	RENESAS
RJK0316DPA	30	40	0,0061	0,0091					2080		S08-Flat	RENESAS
RJK0394DPA	30	40	0,0053	0,0074					2430		S08-Flat	RENESAS
RJK0351DPA	30	40	0,004	0,0059					2750		S08-Flat	RENESAS
RJK03C0DPA	30	40	0,0018	0,0024					11000		S08-Flat	RENESAS
RJK0393DPA	30	45	0,0043	0,0059					3270		S08-Flat	RENESAS
RJK0349DPA	30	45	0,0031	0,0043					3850		S08-Flat	RENESAS
RJK0392DPA	30	50	0,0035	0,0048					4200		S08-Flat	RENESAS
RJK0348DPA	30	50	0,0025	0,0035					5100		S08-Flat	RENESAS
RJK0391DPA	30	65	0,0029	0,0039					5600		S08-Flat	RENESAS
RJK346DPA	30	65	0,002	0,0027					7650		S08-Flat	RENESAS
RJK0390DPA	30	70	0,0022	0,0029					8900		S08-Flat	RENESAS
RJK1557DPA	150	25	0,058						1250		S08-Flat	RENESAS
RJK1555DPA	150	25	0,048						2400		S08-Flat	RENESAS
RJK2057DPA	200	20	0,085						1250		S08-Flat	RENESAS
RJK2055DPA	200	20	0,069						2400		S08-Flat	RENESAS
RJK2557DPA	250	17	0,128						1250		S08-Flat	RENESAS
RJK2555DPA	250	17	0,104						2400		S08-Flat	RENESAS

LFPAK

HAT2134H	20	60	0,003	0,006					4500	30	LFPAK	RENESAS
HAT2160H	20	60	0,003	0,004					7750	30	LFPAK	RENESAS
RJK0304DPB	30	35	0,048	0,007					2500	50	LFPAK	RENESAS
RJK0332DPB-00	30	35	0,005	0,007					2180	-	LFPAK	RENESAS
RJK0303DPB	30	40	0,004	0,006					3300	55	LFPAK	RENESAS
RJK0330DPB-00	30	45	0,003	0,006					4300	-	LFPAK	RENESAS
RJK0302DPB	30	50	0,003	0,006					4200	60	LFPAK	RENESAS
RJK0329DPB-00	30	55	0,002	0,006					5330	-	LFPAK	RENESAS
RJK03C2DPB	30	55	0,003	0,006					4900	-	LFPAK	RENESAS
RJK0301DPB	30	60	0,003	0,006					5000	65	LFPAK	RENESAS
RJK0328DPB-00	30	60	0,002	0,006					6380	-	LFPAK	RENESAS
RJK03C1DPB	30	60	0,002	0,006					6000	-	LFPAK	RENESAS
RJK0451DPB	40	35	0,007		0,010				2000	45	LFPAK	RENESAS
RJK0454DPB-00	40	40	0,005		-				2000	55	LFPAK	RENESAS
RJK0452DPB	40	45	0,004		0,005				2000	55	LFPAK	RENESAS
RJK0455DPB-00	40	45	0,004		-				2550	60	LFPAK	RENESAS
RJK0456DPB-00	40	50	0,003		-				3000	65	LFPAK	RENESAS
RJK0453DPB	40	55	0,002		0,003				2000	65	LFPAK	RENESAS
RJK0651DPB	60	25	0,014		0,018				2000	45	LFPAK	RENESAS
RJK0654DPB-00	60	30	0,008		-				2000	55	LFPAK	RENESAS
RJK0652DPB	60	35	0,007		0,009				2000	55	LFPAK	RENESAS
RJK0655DPB-00	60	35	0,007		-				2550	60	LFPAK	RENESAS
RJK0656DPB-00	60	40	0,006		-				3000	65	LFPAK	RENESAS
RJK0653DPB	60	45	0,005		0,006				2000	65	LFPAK	RENESAS
RJK0851DPB	80	20	0,023		0,028				2000	45	LFPAK	RENESAS
RJK0854DPB-00	80	25	0,013		-				2000	55	LFPAK	RENESAS
RJK0852DPB	80	30	0,012		0,014				2000	55	LFPAK	RENESAS
RJK0855DPB-00	80	30	0,011		-				2550	60	LFPAK	RENESAS
RJK0856DPB-00	80	35	0,009		-				3000	65	LFPAK	RENESAS
RJK0853DPB	80	40	0,008		0,009				2000	65	LFPAK	RENESAS
RJK1051DPB	100	15	0,039		0,046				2000	45	LFPAK	RENESAS
HAT2141H	100	15	0,028		-				3200	20	LFPAK	RENESAS
HAT2175H	100	15	0,042		-				1445	15	LFPAK	RENESAS
HAT2174H	100	20	0,027		-				2280	30	LFPAK	RENESAS
RJK1052DPB	100	20	0,02		0,022				2000	55	LFPAK	RENESAS
RJK1054DPB-00	100	20	0,022		-				2000	55	LFPAK	RENESAS
RJK1055DPB-00	100	23	0,017		-				2550	60	LFPAK	RENESAS
RJK1053DPB	100	25	0,013		0,015				2000	65	LFPAK	RENESAS
RJK1056DPB-00	100	25	0,014		-				3000	65	LFPAK	RENESAS
HAT2132H	200	6	0,45		-				450	-	LFPAK	RENESAS
HAT2119H	250	5	0,63		-				450	-	LFPAK	RENESAS

LFPAK-invers

HAT2160N	20	60	0,003	0,004					7750	30	LFPAK-i	RENESAS
RJK0305DPC	30	30	0,008	0,013					1250	-	LFPAK-i	RENESAS
HAT2168N	30	30	0,008		0,014				1780	-	LFPAK-i	RENESAS
RJK0305DPC-00	30	30	0,008	0,013					1250	45	LFPAK-i	RENESAS
RJK0304DPC-00	30	35	0,005	0,013					2500	50	LFPAK-i	RENESAS
HAT2167N	30	40	0,006	0,013					2700	20	LFPAK-i	RENESAS
RJK0303DPC-00	30	40	0,004	0,013					3300	55	LFPAK-i	RENESAS
HAT2166N	30	45	0,004		0,006				4200	-	LFPAK-i	RENESAS
HAT2165N	30	55	0,004		0,006				5180	-	LFPAK-i	RENESAS
HAT2164N	30	60	0,003	0,005					7600	30	LFPAK-i	RENESAS
RJK0301DPC	30	60	0,003	0,004					5000	65	LFPAK-i	RENESAS
HAT2172N	40	30	0,008		-				1445	-	LFPAK-i	RENESAS
HAT2171N	40	40	0,005		-				2280	-	LFPAK-i	RENESAS
HAT2170N	40	45	0,005		-				3600	-	LFPAK-i	RENESAS
HAT2169N	40	50	0,004	0,006					6650	-	LFPAK-i	RENESAS
HAT2175N	100	15	0,042		-				1445	-	LFPAK-i	RENESAS
HAT2174N	100	20	0,027		-				2280	-	LFPAK-i	RENESAS
HAT2173N	100	25	0,015		-				4350	-	LFPAK-i	RENESAS
RJK2054DPC	200	17	0,098		-				1700	-	LFPAK-i	RENESAS

* Heat sink bottom side ** Heat sink top side NP = Automotive AEC-Q101



S08-Flat*



MOSFET



LFPAK*



LFPAK-i**

MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
max			max	max	max								
[V]	[A]	[Ω]	[Ω]	[Ω]	[Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			

T0252

UT20N03	30	20	0.0155		0.023							T0252	UTC
UT30N03	30	30	0.0145		0.030							T0252	UTC
ATP201	30	35	0.017				985	17			30	T0252ATP	SANYO/ONS
UT40N03	30	40	0.014		0.020							T0252	UTC
UT60N03	30	45	0.012		0.025							T0252	UTC
ATP202	30	50	0.012				1650	27			40	T0252ATP	SANYO/ONS
FS50ASJ-03F	30	50	0.0122			0.019	2100				-	T0252	RENESAS
ATP203	30	75	0.0082				2750	44			50	T0252ATP	SANYO/ONS
UT85N03	30	85	0.005		0.010							T0252	UTC
NP90N03VUG-E1/E2	30	90	0.0032								105	T0252	RENESAS
ATP204	30	100	0.0056				4800	72			60	T0252ATP	SANYO/ONS
UT100N03	30	100	0.0053		0.008							T0252	UTC
UT108N03	30	108	0.0042									T0252	UTC
ATP206	40	40	0.0160				1630	27			40	T0252ATP	SANYO/ONS
2SK4078-ZK-E1/E2	40	50	0.0085		0.0140						45	T0252	RENESAS
NP55N04SUG-E1/E2	40	55	0.0065								77	T0252	RENESAS
UTT60N04	40	60	0.0095									T0252	UTC
2SK4075-ZK-E1/E2	40	60	0.0067		0.0100						52	T0252	RENESAS
ATP207	40	65	0.0091				2.710	54			50	T0252ATP	SANYO/ONS
ATP208	40	90	0.0060				4.510	83			60	T0252ATP	SANYO/ONS
NP90N04VDG-E1/E2	40	90	0.0040		0.0086						105	T0252	RENESAS
NP90N04VLG-E1/E2	40	90	0.0040		0.0086						105	T0252	RENESAS
NP22N055SHE-E1/E2	55	22	0.0390								45	T0252	RENESAS
NP22N055SLE-E1/E2	55	22	0.0370	0.0450	0.0510						45	T0252	RENESAS
NP32N055SHE-E1/E2	55	32	0.0250								66	T0252	RENESAS
NP32N055SDE-E1/E2	55	32	0.0240	0.0290	0.0330						66	T0252	RENESAS
NP32N055SLE-E1/E2	55	32	0.0240	0.0290	0.0330						66	T0252	RENESAS
NP34N055SHE-E1/E2	55	34	0.0190								88	T0252	RENESAS
NP34N055SLE-E1/E2	55	34	0.0180	0.0220	0.0240						88	T0252	RENESAS
NP36N055SHE-E1/E2	55	36	0.0140								120	T0252	RENESAS
NP36N055SLE-E1/E2	55	36	0.0130	0.0160	0.0180						120	T0252	RENESAS
NP52N055SUG-E1/E2	55	52	0.0140								56	T0252	RENESAS
NP55N055SUG-E1/E2	55	55	0.0100								77	T0252	RENESAS
NP55N055SDG-E1/E2	55	55	0.0095		0.0120						77	T0252	RENESAS
IXTY64N055T	55	64	0.013				1420	37	30	1.15	130	T0252	IXYS
NP90N055VUG-E1/E2	55	90	0.0060								105	T0252	RENESAS
NP90N055VDG-E1/E2	55	90	0.0060		0.0105						105	T0252	RENESAS
FS5ASJ-06F	60	5	0.14			0.19	340				-	T0252	RENESAS
FS10ASJ-06F	60	10	0.07			0.086	750				-	T0252	RENESAS
IXTY12N06T	60	12	0.085				256	3.4	30	4.5	33	T0252	IXYS
15N06L-TN3	60	15			0.1							T0252	UTC
H7N0607DS	60	20	0.034	0.056			1100				25	T0252	RENESAS
FS30ASJ-06F	60	30	0.022			0.028	2600				-	T0252	RENESAS
H7N0603DS	60	30	0.015	0.022			3200				40	T0252	RENESAS
ATP212	60	35	0.023				1820	34.5			40	T0252ATP	SANYO/ONS
2SK3402-Z	60	36	0.015									T0252	RENESAS
UTT50N06	60	50	0.016			22						T0252	UTC
50N06L-TN3	60	50	0.023									T0252	UTC
ATP213	60	50	0.016				3150	58			50	T0252ATP	SANYO/ONS
NP52N06SLG	60	52	0.0175		25		2100	39		2.68	56	T0252	RENESAS
UTT60N03	60	60	0.012									T0252	UTC
2SK3814-Z	60	60	0.009		0.011							T0252	RENESAS
ATP214	60	75	0.081				4850	96				T0252ATP	SANYO/ONS
NP90N06VLG*	60	90	0.0078				5000	95				T0252	RENESAS
ATP404	60	95	0.0072				6400	120			70	T0252ATP	SANYO/ONS
ATP401	60	100	0.0037				14500	260			90	T0252ATP	SANYO/ONS
IXTY55N075T	75	55	0.0195				1400	33	50	1.15	130	T0252	IXYS
ATP411	75	73	0.011				5200	98			70	T0252ATP	SANYO/ONS
IXTY50N085T	85	50	0.023				1460	34	55	1.15	130	T0252	IXYS
H7N1005DS	100	12	0.11	0.155			830				20	T0252	RENESAS
19N10L-TN3	100	15.6	0.100									T0252	UTC
2SK3484-Z	100	16	0.125		0.148							T0252	RENESAS
2SK3714-S12-AZ	100	16										T0252	RENESAS
2SK3984-ZK-E1/E2	100	18	0.085								30	T0252	RENESAS
H7N1004DS	100	25	0.035	0.045			2800				-	T0252	RENESAS
NP28N10SDE-E1/E2*	100	28	0.052		0.059						88	T0252	RENESAS
NP36N10SDE-E1/E2*	100	36	0.033		0.039						120	T0252	RENESAS
ATP405	100	40	0.033								70	T0252ATP	SANYO/ONS
IXTY44N10T	100	44	0.03				1262	33	100	1.15	130	T0252	IXYS
NP75N10SDF-E1/E2*	100	75	0.026		0.037						tdb	T0252	RENESAS
2SK3978-TP-FA	200	4	0.55			0.64	950	21			20	T0252	SANYO/ONS
H5N2005DS	200	6	0.65			-	300				25	T0252	RENESAS
H5N2004DS	200	8	0.48			-	450				30	T0252	RENESAS
2SK3635-Z	200	8	0.43									T0252	NEC
UF630L-TN3	200	9	0.4									T0252	UTC
UF640L-TN3	200	18	0.18									T0252	UTC
H5N2505DS	250	5	0.89			-	300				25	T0252	RENESAS
H5N2510DS	250	5	0.89			0.97	365				25	T0252	RENESAS
H5N2504DS	250	7	0.63			0.67	570				30	T0252	RENESAS
H5N2508DS	250	7	0.63			-	450				30	T0252	RENESAS
UF730L-TN3	400	6.5	1									T0252	UTC
RJK4006DPD	400	8	0.8			-	620				-	T0252	RENESAS
IXTY1R6N50P	500	1.6	6.5				140	3.9	400	2.9	43	T0252	IXYS
IXTY2R4N50P	500	2.4	3.75				240	6.1	400	2.25	55	T0252	IXYS
H5N5006DS	500	3	3			-	365				30	T0252	RENESAS
IXTY3N50P	500	3.6	2				409	9.3	400	1.8	70	T0252	IXYS
UF830L-TN3	500	4.5	1.5									T0252	UTC
IXTY5N50P	500	4.8	1.4				620	12.6	400	1.4	89	T0252	IXYS
IXTY5N50P	500	4.8	1.4				620	12.6	400	1.4	89	T0252	IXYS
RJK5003DPD	500	5	1.5			-	550				-	T0252	RENESAS
RJK5030DPD	500	5	1.6			-	550				-	T0252	RENESAS
ATP613	500	5.5	2.0								120	T0252ATP	SANYO/ONS

MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
[V]	[A]	VGS = 10V max [Ω]	VGS = 5V max [Ω]	VGS = 4.5V max [Ω]	VGS = 4.0V max [Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			
RJK5006DPD	500	6	1.3			-	600				-	T0252	RENESAS
RJK5033DPD	500	6	1.3			-	600				-	T0252	RENESAS
ATP616	500	10	0.99				630	25			80	T0252ATP	SANYO/ONS
RJK6024DPD	600	0.4	42			-	37.5				-	T0252	RENESAS
RJK6025DPD	600	0.8	20			-	71.5				-	T0252	RENESAS
2SK4070-Z	600	1	11									T0252	RENESAS
1N60L-A-TN3	600	1.2	11.5									T0252	UTC
IXTY1R4N60P	600	1.4	9				140	5.2	500	2.5	50	T0252	IXYS
IXTY1R4N60P	600	1.4	9				140	5.2	500	2.5	50	T0252	IXYS
RJK6002DPD	600	2	6.8			-	165				-	T0252	RENESAS
IXTY2N60P	600	2	5.1				240	7	400	2.25	55	T0252	IXYS
2N60L-A-TN3	600	2	5									T0252	UTC
IXTY2N60P	600	2	5.1				240	7	400	2.25	55	T0252	IXYS
IXTY3N60P	600	3	2.9				411	9.8	500	1.8	70	T0252	IXYS
3N60L-A-TN3	600	3	3.6									T0252	UTC
IXTY3N60P	600	3	2.9				411	9.8	500	1.8	70	T0252	IXYS
4N60L-A-TN3	600	4	2.5									T0252	UTC
RJK6006DPD	600	5	1.9			-	650				-	T0252	RENESAS
ATP602	600	5	2.7				320	13.4				T0252ATP	SANYO/ONS
ATP618	600	8.5	1.42				630	25				T0252ATP	SANYO/ONS
1L60-B-TN3	650	1.2	11.5									T0252	UTC
2N60L-B-TN3	650	2	5									T0252	UTC
3N60L-B-TN3	650	3	3.6									T0252	UTC
4N60L-B-TN3	650	4	2.5									T0252	UTC
3N70L-TN3	700	3	4									T0252	UTC
IXTY01N80	800	0.1	50				60	8	1500	3	25	T0252	IXYS
IXTY1N80P	800	1	14				250	9	700	3	42	T0252	IXYS
IXTY2N80P	800	2	6				440	10.6	650	1.8	70	T0252	IXYS
IXTY01N100	1000	0.1	80				60	8	1500	3	25	T0252	IXYS
IXTY05N100	1000	0.75	17				260	7.8	710	3.1	40	T0252	IXYS
IXTY08N100P	1000	0.8	20				240	11.3	750	3	42	T0252	IXYS
IXTY1N100P	1000	1	15				331	15.5	750	2.5	50	T0252	IXYS
IXTY1R4N100P	1000	1.4	11				450	17.8	750	2	63	T0252	IXYS
IXTY2N100P	1000	2	7.5				655	24.3	800	1.45	86	T0252	IXYS

T0263

2SK3570-ZK-E1/E2	20	48	0.0120		0.0220							29	T0263	RENESAS
2SK3571-ZK-E1/E2	20	48	0.0090		0.0160							40	T0263	RENESAS
2SK3572-ZK-E1/E2	20	80	0.0057		0.0099							52	T0263	RENESAS
2SK3573-ZK-E1/E2	20	83	0.0040		0.0060							105	T0263	RENESAS
UT30N03	30	30	0.0145		0.030								T0263	UTC
H7N0310LM	30	30	0.01	0.019(5V)			1400					50	T0263	RENESAS
H7N0310LS	30	30	0.01	0.019(5V)			1400					50	T0263	RENESAS
UT40N03	30	40	0.014		0.020								T0263	UTC
H7N0311LM	30	45	0.0088	0.016(5V)			1650					60	T0263	RENESAS
H7N0311LS	30	45	0.0088	0.016(5V)			1650					60	T0263	RENESAS
2SK3574-ZK-E1/E2	30	48	0.0135		0.0240							29	T0263	RENESAS
H7N0307LM	30	60	0.0058	0.0115			2500					90	T0263	RENESAS
H7N0307LS	30	60	0.0058	0.0115			2500					90	T0263	RENESAS
NP60N03KUG-E1/E2	30	60	0.0048									88	T0263	RENESAS
UT60N03	30	45	0.012		0.025								T0263	UTC
H7N0308LM	30	70	0.0048	0.0085			3350					100	T0263	RENESAS
H7N0308LS	30	70	0.0048	0.0085			3350					100	T0263	RENESAS
NP80N03KDE-E1/E2	30	80	0.007	0.009	0.011							120	T0263	RENESAS
NP80N03KLE-E1/E2	30	80	0.007	0.009	0.011							120	T0263	RENESAS
NP82N03PUG-E1/E2	30	82	0.0028									143	T0263	RENESAS
H7N0312LM	30	85	0.0033	0.0058			6900					125	T0263	RENESAS
H7N0312LS	30	85	0.0033	0.0058			6900					125	T0263	RENESAS
NP88N03KDG-E1/E2	30	88	0.0024		0.0039							200	T0263	RENESAS
NP88N03KUG-E1/E2	30	88	0.0024									200	T0263	RENESAS
UT100N03	30	100	0.0053		0.008								T0263	UTC
FS100VJ-03F	30	100	0.004		0.0057	7600						-	T0263	RENESAS
UT108N03	30	108	0.0042										T0263	UTC
NP110N03PUG-E1/E2	30	110	0.0015									288	T0263	RENESAS
UT120N03	30	120	0.0042		0.0064								T0263	UTC
UT136N03	30	136	0.0036		0.0056								T0263	UTC
UT150N03	30	150	0.0041		0.0046								T0263	UTC
UT220N03	30	220	0.002										T0263	UTC
2SK4184	40	50	0.0085		0.0140							42	T0263	RENESAS
UTT60N04	40	60	0.0095										T0263	UTC
NP60N04KUG-E1/E2	40	60	0.0061									88	T0263	RENESAS
H7N0405LS90TR-E	40	80	0.005	0.0087			5600					-	T0263	RENESAS
2SK3430-ZK-E1/E2	40	80	0.0073			15.0000						84	T0263	RENESAS
NP80N04KHE-E1/E2	40	80	0.008									120	T0263	RENESAS
NP80N04PDG-E1/E2	40	80	0.0045		8.7000							115	T0263	RENESAS
NP80N04PUG-E1/E2	40	80	0.0045									115	T0263	RENESAS
NP80N04PLG-E1/E2	40	80	0.0045		0.0087							115	T0263	RENESAS
NP82N04PDG-E1/E2	40	82	0.0035		0.0080							143	T0263	RENESAS
NP82N04PUG-E1/E2	40	82	0.0035									143	T0263	RENESAS
NP84N04KHE-E1/E2	40	84	0.0052									200	T0263	RENESAS
NP86N04KHE-E1/E2	40	86	0.0044									230	T0263	RENESAS
NP88N04KUG-E1/E2	40	88	0.0029									200	T0263	RENESAS
NP88N04KHE-E1/E2	40	88	0.0043									288	T0263	RENESAS
NP90N04PUH-E1/E2	40	90	0.0047									269	T0263	RENESAS
NP90N04PDH-E1/E2	40	90	0.0043		0.0072							269	T0263	RENESAS
H7N0401LS	40	95	0.0042	0.007			9300					100	T0263	RENESAS
IXTA100N04T2	40	100	0.007				2690	25.5	34	1	150	T0263	IXYS	
SMP4006	40	100	0.0045				6000	116					T0263	SANYO/ONS
NP100N04PDH-E1/E2	40	100	0.0038		0.0060							337	T0263	RENESAS
2SK3811-ZP-E1/E2	40	110	0.0018									213	T0263	RENESAS
NP109N04PUG-E1/E2	40	110	0.0023									220	T0263	RENESAS
NP109N04PUJ-E1/E2	40	110	0.0023									220	T0263	RENESAS
NP110N04PDG-E1/E2	40	110	0.0018		0.0032							288	T0263	RENESAS
NP110N04PUG-E1/E2	40	110	0.0018									288	T0263	RENESAS

NP = Automotive AEC-Q101

T0252
DPAK



ATPAK



MOSFET

T0263
D2PAK



MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics											Package	Manufacturer
	Ta=25°C												
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc	PD		
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
max			max	max	max								
[V]	[A]	[Ω]	[Ω]	[Ω]	[Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			
NP110N04PUJ-E1/E2	40	110	0.0018								288	T0263	RENESAS
IXTA120N04T2	40	120	0.0061								200	T0263	IXYS
IXTA160N04T2	40	160	0.005								250	T0263	IXYS
IXTA220N04T2	40	220	0.0035								360	T0263	IXYS
IXTA300N04T2	40	300	0.0025								480	T0263	IXYS
NP40N055KHE-E1/E2	55	40	0.0230								66	T0263	RENESAS
NP40N055KLE-E1/E2	55	40	0.0230	0.0280	0.0320						66	T0263	RENESAS
NP48N055KHE-E1/E2	55	48	0.0170								85	T0263	RENESAS
NP48N055KLE-E1/E2	55	48	0.0170	0.0210	0.0240						85	T0263	RENESAS
NP60N055KUG-E1/E2	55	60	0.0094								88	T0263	RENESAS
NP80N055KHE-E1/E2	55	80	0.0110								120	T0263	RENESAS
NP80N055KLE-E1/E2	55	80	0.0110	0.0130	0.0150						120	T0263	RENESAS
NP80N055PDG-E1/E2	55	80	0.0070		0.0109						115	T0263	RENESAS
NP82N055KHE-E1/E2	55	82	0.0086								163	T0263	RENESAS
NP82N055KLE-E1/E2	55	82	0.0085	0.0110	0.0120						163	T0263	RENESAS
NP82N055PUG-E1/E2	55	82	0.0052								143	T0263	RENESAS
NP84N055KHE-E1/E2	55	84	0.0073								200	T0263	RENESAS
NP84N055KLE-E1/E2	55	84	0.0070	0.0087	0.0094						200	T0263	RENESAS
NP88N055KUG-E1/E2	55	88	0.0039								200	T0263	RENESAS
NP88N055KHE-E1/E2	55	88	0.0053								288	T0263	RENESAS
NP88N055KLE-E1/E2	55	88	0.0052	0.0063	0.0068						288	T0263	RENESAS
IXTA90N055T2	55	90	0.0084				2770	42	37	1	150	T0263	IXYS
NP90N055PUH-E1/E2	55	90	0.0058								269	T0263	RENESAS
NP90N055PDH-E1/E2	55	90	0.0055		0.0086						269	T0263	RENESAS
NP100N055PUH-E1/E2	55	100	0.0049								337	T0263	RENESAS
NP100N055PDH-E1/E2	55	100	0.0048		0.0072						337	T0263	RENESAS
IXTA110N055P	55	110	0.0135				2210	76	80	0.38	390	T0263	IXYS
IXTA110N055T2	55	110	0.0066				3060	57	38	0.82	180	T0263	IXYS
NP109N055PUJ-E1/E2	55	110	0.0032								220	T0263	RENESAS
NP110N055PUG-E1/E2	55	110	0.0024								288	T0263	RENESAS
NP110N055PUJ-E1/E2	55	110	0.0024								288	T0263	RENESAS
IXTA140N055T2	55	140	0.0054				4760	82	40	0.6	250	T0263	IXYS
IXTA182N055T	55	182	0.005				4850	114	70	0.42	360	T0263	IXYS
IXTA200N055T2	55	200	0.0042				6970	109	49	0.42	360	T0263	IXYS
IXTA220N055T	55	220	0.004				7200	158	70	0.35	430	T0263	IXYS
IXTA240N055T	55	240	0.0036				7600	170	70	0.31	480	T0263	IXYS
IXTA260N055T2	55	260	0.0033				10800	140	60	0.31	480	T0263	IXYS
2SK3815-SMP-FD	60	23	0.055			0.085	775	19			40	T0263	SANYO/ONS
2SK3433-Z	60	40	0.026			0.041						T0263	RENESAS
2SK3816-SMP-FD	60	40	0.026			0.04	1780	40			50	T0263	SANYO/ONS
2SK3434-Z	60	48	0.02			0.031						T0263	RENESAS
UTT50N06	60	50	0.016									T0263	UTC
UTT60N03	60	60	0.012									T0263	UTC
2SK3817-SMP-FD	60	60	0.015			0.022	3500	67			65	T0263	SANYO/ONS
2SK3902-ZK-E1/E2	60	60	0.0210		0.0260						45	T0263	RENESAS
2SK3901-ZK-E1/E2	60	60	0.0130		0.0165						64	T0263	RENESAS
FS70VSJ-06F	60	70	0.007			0.0083	8500				-	T0263	RENESAS
H7N0608LM	60	70	0.008	0.012			6200				80	T0263	RENESAS
H7N0608LS	60	70	0.008	0.012			6200				80	T0263	RENESAS
70N06	60	70	0.0015									T0263	UTC
2SK3818-SMP-FD	60	74	0.013			0.018	5250	100			75	T0263	SANYO/ONS
NP80N06PLG-E1/E2	60	80	0.0097		0.0130						115	T0263	RENESAS
NP82N06PDG-E1/E2	60	80	0.0067	0.0085							143	T0263	RENESAS
2SK3900-ZP-E1/E2	60	82	0.0080		0.0100						104	T0263	RENESAS
NP82N06PLG-E1/E2	60	82	0.0067		0.0085						143	T0263	RENESAS
2SK3899-ZK-E1/E2	60	84	0.0053		0.0065						146	T0263	RENESAS
UK4145	60	84	0.007									T0263	UTC
UTT80N06	60	84	0.008									T0263	UTC
UF1010E	60	84	0.012									T0263	UTC
H7N0602LM	60	85	0.0052	0.009			9000				100	T0263	RENESAS
H7N0602LS	60	85	0.0052	0.009			9000				100	T0263	RENESAS
RJK0629DPE-00	60	85	0.0045	0.0066			4100				100	T0263	RENESAS
2SK4066-SMP-FD	60	100	0.005			0.007	12500	220			90	T0263	SANYO/ONS
SMP4001	60	100	0.0037				14500	260				T0263	SANYO/ONS
100N06	60	100	0.010									T0263	UTC
2SK3812-ZP-E1/E2	60	110	0.0028		0.0037						213	T0263	RENESAS
IXTA130N065T2	65	130	0.0066				4800	79	41	0.6	250	T0263	IXYS
IXTA70N075T2	75	70	0.012				2580	46	48	1	150	T0263	IXYS
IXTA76N075T	75	76	0.012				2580	57	80	0.85	176	T0263	IXYS
UTT75N08	75	80	0.0095									T0263	UTC
75N75A	75	80	0.0095									T0263	UTC
NP84N075KUE-E1/E2	75	84	0.0125								200	T0263	RENESAS
NP88N075KUE-E1/E2	75	88	0.0085								288	T0263	RENESAS
SMP4007	75	90	0.0078				9.700.0	158.0				T0263	SANYO/ONS
IXTA90N075T2	75	90	0.01				3290	54	50	0.82	180	T0263	IXYS
UTT100N08	75	100	0.006									T0263	UTC
SMP4003	75	100	0.0044				17100	315				T0263	SANYO/ONS
2SK4065-SMP-FD	75	100	0.006			0.008	12200	220			90	T0263	SANYO/ONS
IXTA120N075T2	75	120	0.0077				4740	78	50	0.6	250	T0263	IXYS
IXTA160N075T	75	160	0.006				4950	112	80	0.42	360	T0263	IXYS
IXTA170N075T2	75	170	0.0054				6860	109	63	0.42	360	T0263	IXYS
IXTA200N075T	75	200	0.005				6800	160	80	0.35	430	T0263	IXYS
IXTA220N075T	75	220	0.0045				7700	165	80	0.31	480	T0263	IXYS
IXFA230N075T2	75	230	0.0042				10500	178	59	0.31	480	T0263	IXYS
IXTA230N075T2	75	230	0.0042				10500	178	66	0.31	480	T0263	IXYS
60N08	80	60	0.018									T0263	UTC
70N08	80	70	0.014									T0263	UTC
80N08	80	80	0.011									T0263	UTC
IXTA70N085T	85	70	0.0135				2570	59	90	0.85	176	T0263	IXYS
IXTA88N085T	85	88	0.011				3140	69	90	0.65	230	T0263	IXYS
IXTA152N085T	85	152	0.007				5500	114	90	0.42	360	T0263	IXYS
IXTA160N085T	85	160	0.006				6400	164	100	0.42	360	T0263	IXYS
IXTA180N085T	85	180	0.0055				8800	170	63	0.35	430	T0263	IXYS
IXTA200N085T	85	200	0.005				7600	152	90	0.31	480	T0263	IXYS

T0263
D2PAK



MOSFET

MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
max			max	max	max								
[V]	[A]	[Ω]	[Ω]	[Ω]	[Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			
2SK3819-SMP-FD	100	14	0.13			0.16	750	24			40	T0263	SANYO/ONS
H7N1005LS	100	15	0.11	0.155			830				30	T0263	RENESAS
2SK3820-SMP-FD	100	26	0.06			0.08	2150	44			50	T0263	SANYO/ONS
H7N1004LS	100	30	0.035	0.045			2800				50	T0263	RENESAS
2SK3481-Z	100	30	0.05		0.058							T0263	RENESAS
2SK3821-SMP-FD	100	40	0.033			0.042	4200	73			65	T0263	SANYO/ONS
2SK3480-Z	100	50	0.031		0.036							T0263	RENESAS
2SK3822-SMP-FD	100	52	0.025			0.032	6250	117			75	T0263	SANYO/ONS
UTT60N10	100	60	0.165		0.024							T0263	UTC
IXTA60N10T	100	60	0.018				2650	49	59	0.85	176	T0263	IXYS
RJK1021DPE	100	70	0.02			-	2600				100	T0263	RENESAS
NP70N10KUF-E1/E2	100	70	0.0200	0.0300							120	T0263	RENESAS
UTT72N10	100	72	0.015		0.021							T0263	UTC
H7N1002LS	100	75	0.01	0.015			9700				100	T0263	RENESAS
IXTA75N10P	100	75	0.025				2250	74	120	0.42	360	T0263	IXYS
NP75N10KDF-E1/E2*	100	75	0.0270		0.0380						tbid	T0263	RENESAS
RJK1008DPE-00	100	80	0.011			-	5200				125	T0263	RENESAS
IXTA80N10T	100	80	0.014				3040	60	100	0.65	230	T0263	IXYS
NP82N10PUF-E1/E2*	100	82	0.0150								150	T0263	RENESAS
2SK3479-ZK-E1/E2	100	83	0.0110		0.0130						125	T0263	RENESAS
SMP4004	100	100	0.0089				17.100	315				T0263	SANYO/ONS
IXTA130N10T	100	130	0.0091				5080	104	67	0.42	360	T0263	IXYS
IXFA130N10T2	100	130	0.0091				6600	130	*	0.42	360	T0263	IXYS
IXTA160N10T	100	160	0.007				6600	132	60	0.35	430	T0263	IXYS
IXTA180N10T	100	180	0.0064				6900	151	72	0.31	480	T0263	IXYS
IXTA80N12T2	120	80	0.17				4740	80	325	0.46	325	T0263	IXYS
RJK1525DPE	150	25	0.11			-	680				75	T0263	RENESAS
RJK1525DPF	150	25	0.11			-	680				75	T0263	RENESAS
H5N1501LM-E	150	30	0.085			-	1350				-	T0263	RENESAS
H5N1501LSTL-E	150	30	0.085			-	1350				-	T0263	RENESAS
RJK1535DPE	150	40	0.052			-	1420				100	T0263	RENESAS
RJK1535DPE-00	150	40	0.052			-	1420				100	T0263	RENESAS
IXTA42N15T	150	42	0.045				1880	21	100	0.75	200	T0263	IXYS
RJK1526DPE	150	50	0.042			-	1800				-	T0263	RENESAS
RJK1526DPF	150	50	0.042			-	1800				-	T0263	RENESAS
RJK1536DPE	150	50	0.03			-	5000				125	T0263	RENESAS
IXTA56N15T	150	56	0.036				2250	34	100	0.5	300	T0263	IXYS
IXTA62N15P	150	62	0.04				2250	70	150	0.42	350	T0263	IXYS
IXFA76N15T2	150	76	0.02				5800	97	69	0.43	350	T0263	IXYS
IXTA90N15T	150	90	0.02				4100	80	110	0.33	455	T0263	IXYS
IXTA102N15T	150	102	0.018				5220	87	97	0.33	455	T0263	IXYS
IXFA102N15T	150	102	0.018				5220	87		0.33	455	T0263	IXYS
IXFA110N15T2	150	110	0.013				8600	150	85	0.31	480	T0263	IXYS
H5N2001LM	200	20	0.125			-	1350				75	T0263	RENESAS
H5N2001LS	200	20	0.125			-	1350				75	T0263	RENESAS
2SK3112-Z	200	25	0.11									T0263	RENESAS
IXTA32N20T	200	32	0.072				1760	38	110	0.75	200	T0263	IXYS
RJK2006DPE	200	40	0.059			-	1800				100	T0263	RENESAS
RJK2006DPF	200	40	0.059			-	1800				100	T0263	RENESAS
RJK2017DPE	200	45	0.047			-	4800				-	T0263	RENESAS
IXTA48N20T	200	48	0.05				3090	60	130	0.5	250	T0263	IXYS
IXTA50N20P	200	50	0.06				2720	70	150	0.42	360	T0263	IXYS
IXTA60N20T	200	60	0.04				4530	73	118	0.3	500	T0263	IXYS
IXTA86N20T	200	86	0.029				4500	90	140	0.31	480	T0263	IXYS
2SK2531-ZP	250	6	0.8				420				30	T0263	SANYO/ONS
2SK2592-SMP-FD	250	13	0.27				1290				60	T0263	SANYO/ONS
2SK2534-ZP	250	16	0.18				1950				50	T0263	SANYO/ONS
H5N2501LM-E	250	18	0.18			-	1350				-	T0263	RENESAS
H5N2501LSTL-E	250	18	0.18			-	1350				-	T0263	RENESAS
H5N2522LS	250	20	0.18			-	1300				-	T0263	RENESAS
2SK3740-ZK-E1/E2	250	20	160								100	T0263	RENESAS
IXTA42N25P	250	42	0.084				2300	70	200	0.42	300	T0263	IXYS
IXTA50N25T	250	50	0.05				4000	78	166	0.31	400	T0263	IXYS
IXTA76N25T	250	76	0.039				4500	92	148	0.27	460	T0263	IXYS
IXTA50N28T	280	50	0.06				4070	87	180	0.37	340	T0263	IXYS
H5N3005LSTL-E	300	15	0.255			-	1300				-	T0263	RENESAS
IXTA36N30P	300	36	0.11				2250	70	250	0.42	300	T0263	IXYS
2SK3284-ZP	400	10	0.55				1150	40			50	T0263	SANYO/ONS
RJK4012DPE	400	15	0.41			-	1100				100	T0263	RENESAS
RJK4013DPE	400	17	0.3			-	1450				-	T0263	RENESAS
RJK4512DPE	450	14	0.51			-	1100				-	T0263	RENESAS
RJK4513DPE	450	16	0.38			-	1450				-	T0263	RENESAS
H5N5006LM	500	3.5	3			-	365				50	T0263	RENESAS
H5N5006LS	500	3.5	3			-	365				50	T0263	RENESAS
IXTA3N50P	500	3.6	2				409	9.3	400	1.8	70	T0263	IXYS
IXTA5N50P	500	4.8	1.4				620	12.6	400	1.4	89	T0263	IXYS
RJK5026DPE	500	6	1.7			-	440				-	T0263	RENESAS
IXTA6N50P	500	6	1.1				740	14.6	400	1.25	100	T0263	IXYS
2SK2619-SMP-FD	500	6	1.25				700	20			70	T0263	SANYO/ONS
IXTA8N50P	500	8	0.8				1050	20	400	0.83	150	T0263	IXYS
2SK3325B-ZK-E1/E2	500	10	1								85	T0263	RENESAS
RJK5012DPE	500	12	0.62			-	1100				-	T0263	RENESAS
RJL5012DPE	500	12	0.7			-	1050				-	T0263	RENESAS
IXTA12N50P	500	12	0.5				1690	29	400	0.62	200	T0263	IXYS
IXFA12N50P	500	12	0.5				1830	29	200	0.62	200	T0263	IXYS
RJK5013DPE	500	14	0.465			-	1450				-	T0263	RENESAS
RJL5013DPE	500	14	0.51			-	1400				-	T0263	RENESAS
IXTA16N50P	500	16	0.4				2250	43	400	0.42	300	T0263	IXYS
IXFA16N50P	500	16	0.4				2250	43	200	0.42	300	T0263	IXYS
IXTA460P2	500	24	0.27				2890	48	400	0.26	480	T0263	IXYS
RJK6024DPE	600	0.4	42			-	37.5				-	T0263	RENESAS
RJK6025DPE	600	0.8	17.5			-	71.5				-	T0263	RENESAS
RJK6002DPE	600	2	6.8			-	165				-	T0263	RENESAS
2SK2919-ZP	600	2	4.3				400	-			35	T0263	SANYO/ONS

NP = Automotive AEC-Q101

T0263
D2PAK



MOSFET

MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics											Package	Manufacturer
	Ta=25°C												
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc	PD		
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
max			max	max	max								
[V]	[A]	[Ω]	[Ω]	[Ω]	[Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			
IXTA3N60P	600	3	2.9				411	9.8	500	1.8	70	T0263	IXYS
IXTA4N60P	600	4	2				635	13	500	1.41	89	T0263	IXYS
RJK6026DPE	600	5	2.4			-	440					T0263	RENESAS
IXTA5N60P	600	5	1.7				750	14.2	500	1.25	100	T0263	IXYS
IXTA7N60P	600	7	1.1				1080	20	500	0.83	150	T0263	IXYS
RJK6012DPE	600	10	0.92				1100					T0263	RENESAS
RJL6012DPE	600	10	1.1			-	1050					T0263	RENESAS
IXTA10N60P	600	10	0.74				1610	32	500	0.62	200	T0263	IXYS
IXFA10N60P	600	10	0.74				1610	32	200	0.62	200	T0263	IXYS
RJK6013DPE	600	11	0.7			-	1450					T0263	RENESAS
RJL6013DPE	600	11	0.81			-	1400					T0263	RENESAS
IXTA14N60P	600	14	0.55				2500	36	500	0.42	300	T0263	IXYS
IXFA14N60P	600	14	0.55				2500	36	200	0.42	300	T0263	IXYS
IXTA1N80P	800	1	14				250	9	700	3	42	T0263	IXYS
IXTA1N80	800	1	11				220	8.5	710	3.1	40	T0263	IXYS
IXTA2N80	800	2	6.2				440	22	510	2.3	54	T0263	IXYS
IXTA2N80P	800	2	6				440	10.6	650	1.8	70	T0263	IXYS
IXTA4N80P	800	3.5	3				750	15	600	1.25	100	T0263	IXYS
IXFA7N80P	800	7	1.44				1890	32	250	0.62	200	T0263	IXYS
IXFA10N80P	800	10	1.1				2300	40	250	0.42	300	T0263	IXYS
IXTA05N100	1000	0.75	17				260	7.8	710	3.1	40	T0263	IXYS
IXTA08N100P	1000	0.8	20				240	11.3	750	3	42	T0263	IXYS
IXTA1N100P	1000	1	15				331	15.5	750	2.5	50	T0263	IXYS
IXTA1R4N100P	1000	1.4	11				666	17.8	750	2	63	T0263	IXYS
IXTA1N100	1000	1.5	11				480	23	710	2.3	54	T0263	IXYS
IXTA2N100P	1000	2	7.5				655	24.3	800	1.45	86	T0263	IXYS
IXTA3N100P	1000	3	4.8				1100	39	820	1	125	T0263	IXYS
IXFA4N100P	1000	4	3.3				1456	26	300	0.83	150	T0263	IXYS
IXFA4N100Q	1000	4	3				1050	39	250	0.8	156	T0263	IXYS
IXFA5N100P	1000	5	2.8				1830	33.4	200	0.5	250	T0263	IXYS
IXFA7N100P	1000	7	1.9				2590	47	300	0.42	300	T0263	IXYS
IXTA06N120P	1200	0.6	32				236	13.3	900	3	42	T0263	IXYS
IXTA08N120P	1200	0.8	25				333	14	900	2.5	50	T0263	IXYS
IXTA1N120P	1200	1	20				445	17.6	900	2	63	T0263	IXYS
IXTA1R4N120P	1200	1.4	13				725	24.8	900	1.45	86	T0263	IXYS
IXTA2R4N120P	1200	2.4	7.5				1207	37	920	1	125	T0263	IXYS
IXTA3N120	1200	3	4.5				1050	39	700	0.8	150	T0263	IXYS
IXFA3N120	1200	3	4.5				1050	39	250	0.62	200	T0263	IXYS
2SK4177	1500	2	13				380	37.5				T0263	SANYO/ONS

T0263-7

NP160N04TDG-E1/E2	40	160	0.0020		5.4							211	T0263-7	RENESAS
NP160N04TUG-E1/E2	40	160	0.0020									211	T0263-7	RENESAS
NP160N04TUJ-E1/E2*	40	160	0.0020									220	T0263-7	RENESAS
NP161N04TUG-E1/E2	40	160	0.0018									250	T0263-7	RENESAS
NP180N04TUG-E1/E2	40	180	0.0015									288	T0263-7	RENESAS
NP180N04TUJ-E1/E2*	40	180	0.0015									288	T0263-7	RENESAS
IXTA220N04T2-7	40	220	0.0035				6820	112	45	0.42	360	T0263-7	IXYS	
IXTA300N04T2-7	40	300	0.0025				10700	145	53	0.31	480	T0263-7	IXYS	
IXTA110N055T7	55	110	0.007				3080	67	70	0.65	230	T0263-7	IXYS	
NP160N055TUJ-E1/E2*	55	160	0.0030								220	T0263-7	RENESAS	
NP180N055TUJ-E1/E2*	55	180	0.0024								288	T0263-7	RENESAS	
IXTA182N055T7	55	182	0.005				4850	114	70	0.42	360	T0263-7	IXYS	
IXTA200N055T2-7	55	200	0.0042				6970	109	49	0.42	360	T0263-7	IXYS	
IXTA220N055T7	55	220	0.004				7200	158	70	0.35	430	T0263-7	IXYS	
IXTA240N055T7	55	240	0.0036				7600	170	70	0.31	480	T0263-7	IXYS	
IXTA260N055T2-7	55	260	0.0033				10800	140	60	0.31	480	T0263-7	IXYS	
IXTA98N075T7	75	98	0.01				3100	80	100	0.75	200	T0263-7	IXYS	
IXTA160N075T7	75	160	0.006				4950	112	80	0.42	360	T0263-7	IXYS	
IXTA200N075T7	75	200	0.005				6800	160	80	0.35	430	T0263-7	IXYS	
IXTA220N075T7	75	220	0.0045				7700	165	80	0.31	480	T0263-7	IXYS	
IXTA230N075T2-7	75	230	0.0042				10500	178	66	0.31	480	T0263-7	IXYS	
IXFA230N075T2-7	75	230	0.0042				10500	178	59	0.31	480	T0263-7	IXYS	
IXTA88N085T7	85	88	0.011				3140	69	90	0.65	230	T0263-7	IXYS	
IXTA152N085T7	85	152	0.007				5500	114	90	0.42	360	T0263-7	IXYS	
IXTA180N085T7	85	180	0.0055				8800	170	63	0.35	430	T0263-7	IXYS	
IXTA200N085T7	85	200	0.005				7600	152	90	0.31	480	T0263-7	IXYS	
IXTA80N10T7	100	80	0.014				3040	60	100	0.65	230	T0263-7	IXYS	
IXTA130N10T7	100	130	0.0091				5080	104	67	0.42	360	T0263-7	IXYS	
IXTA160N10T7	100	160	0.007				6600	132	100	0.35	430	T0263-7	IXYS	
IXTA180N10T7	100	180	0.0064				6900	151	100	0.31	480	T0263-7	IXYS	

Plus220SMD

IXTV270N055T2S	55	270	0.003				9700	167	63	0.24	625	Plus220SMD	IXYS
IXTV280N055TS	55	280	0.0032				9800	200	70	0.27	550	Plus220SMD	IXYS
IXUV170N075S	75	175	0.0053					310	120	0.5	300	Plus220SMD	IXYS
IXTV250N075TS	75	250	0.004				9900	200	80	0.27	550	Plus220SMD	IXYS
IXTV230N85TS	85	230	0.0044				9900	187	90	0.27	550	Plus220SMD	IXYS
IXFV110N10PS	100	110	0.015				3550	110	150	0.31	480	Plus220SMD	IXYS
IXTV200N10TS	100	200	0.0055				9400	152	76	0.27	550	Plus220SMD	IXYS
IXFV96N15PS	150	96	0.024				3500	110	200	0.31	480	Plus220SMD	IXYS
IXFV74N20PS	200	74	0.034				3300	107	200	0.31	480	Plus220SMD	IXYS
IXTV110N25TS	250	110	0.024				9400	157	170	0.18	694	Plus220SMD	IXYS
IXFV110N25TS	250	110	0.024				9400	157	170	0.18	694	Plus220SMD	IXYS
IXFV52N30PS	300	52	0.066				3490	110	200	0.31	400	Plus220SMD	IXYS
IXTV22N50PS	500	22	0.27				2630	50	400	0.35	350	Plus220SMD	IXYS
IXFV22N50PS	500	22	0.27				2630	50	200	0.35	350	Plus220SMD	IXYS
IXTV26N50PS	500	26	0.23				3600	65	300	0.31	400	Plus220SMD	IXYS
IXFV26N50PS	500	26	0.23				3600	60	200	0.31	400	Plus220SMD	IXYS
IXTV30N50PS	500	30	0.2				4150	70	400	0.27	460	Plus220SMD	IXYS
IXFV30N50PS	500	30	0.2				4150	70	200	0.27	460	Plus220SMD	IXYS
IXTV36N50PS	500	36	0.17				4700	82	400	0.23	540	Plus220SMD	IXYS
IXFV36N50PS	500	36	0.17				5500	93	200	0.23	540	Plus220SMD	IXYS
IXTV18N60PS	600	18	0.42				2500	49	500	0.35	360	Plus220SMD	IXYS

MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
max			max	max	max								
[V]	[A]	[Ω]	[Ω]	[Ω]	[Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			
IXFV18N60PS	600	18	0.4				2500	50	200	0.35	360	Plus220SMD	IXYS
IXTV22N60PS	600	22	0.35				3600	62	500	0.31	400	Plus220SMD	IXYS
IXFV22N60PS	600	22	0.35				3600	58	200	0.31	400	Plus220SMD	IXYS
IXTV26N60PS	600	26	0.27				4150	72	500	0.27	460	Plus220SMD	IXYS
IXFV26N60PS	600	26	0.27				4150	72	200	0.27	460	Plus220SMD	IXYS
IXTV30N60PS	600	30	0.24				5050	82	500	0.23	540	Plus220SMD	IXYS
IXFV30N60PS	600	30	0.24				4000	82	200	0.25	500	Plus220SMD	IXYS
IXFV12N80PS	800	12	0.85				2800	51	250	0.35	360	Plus220SMD	IXYS
IXFV14N80PS	800	14	0.72				3900	61	250	0.31	400	Plus220SMD	IXYS
IXFV16N80PS	800	16	0.6				4000	70	250	0.27	460	Plus220SMD	IXYS
IXFV20N80PS	800	20	0.52				4685	86	250	0.25	500	Plus220SMD	IXYS
IXFV12N90PS	900	12	0.9				3080	56	300	0.33	380	Plus220SMD	IXYS
IXFV180N90PS	900	18	0.6				5230	97	300	0.23	540	Plus220SMD	IXYS
IXFV18N90PS	900	18	0.6				5230	97	300	0.23	540	Plus220SMD	IXYS
IXFV12N100PS	1000	12	1.05				4080	80	300	0.27	463	Plus220SMD	IXYS
IXFV15N100PS	1000	15	0.76				5140	97	300	0.23	543	Plus220SMD	IXYS
IXFV12N120PS	1200	12	1.35				6500	103	300	0.23	543	Plus220SMD	IXYS
IXTV02N250S	2500	0.2	450				120	6.6	2200	2.2	57	Plus220SMD	IXYS

T0268

IXTT500N04T2	40	500	0.0016				25000	405	84	0.15	1000	T0268	IXYS
IXFT60N50P3	50	60	0.1				6250	96	250	0.12	1040	T0268	IXYS
IXTT360N055T2	55	360	0.0024				20000	330	78	0.16	935	T0268	IXYS
IXTT440N055T2	55	440	0.0018				25000	405	76	0.15	1000	T0268	IXYS
IXFT340N075T2	75	340	0.0032				19000	300	75	0.16	935	T0268	IXYS
IXFT400N075T2	75	400	0.0032				24000	420	77	0.15	1000	T0268	IXYS
IXTT110N10P	100	110	0.015				3550	110	130	0.31	480	T0268	IXYS
IXTT140N10P	100	140	0.011				4700	155	120	0.25	600	T0268	IXYS
IXFT140N10P	100	140	0.011				4700	155	150	0.25	600	T0268	IXYS
IXTT170N10P	100	170	0.009				6000	198	120	0.21	714	T0268	IXYS
IXFT320N10T2	100	320	0.0035				26000	430	98	0.15	1000	T0268	IXYS
IXTT96N15P	150	96	0.024				3500	110	150	0.31	480	T0268	IXYS
IXTT120N15P	150	120	0.016				4900	150	150	0.25	600	T0268	IXYS
IXFT120N15P	150	120	0.016				4900	150	200	0.25	600	T0268	IXYS
IXFT150N17T2	175	150	0.012				14600	233		0.17	880	T0268	IXYS
IXFT60N20F	200	60	0.038				2930	100	200	0.39	320	T0268	IXYS
IXTT74N20P	200	74	0.034				3300	107	160	0.31	480	T0268	IXYS
IXTT96N20P	200	96	0.024				4800	145	160	0.25	600	T0268	IXYS
IXFT96N20P	200	96	0.024				4800	145	200	0.25	600	T0268	IXYS
IXTT64N25P	250	64	0.049				3450	105	200	0.31	400	T0268	IXYS
IXTT82N25P	250	82	0.035				4800	142	200	0.25	500	T0268	IXYS
IXTT100N25P	250	100	0.027				6300	185	200	0.21	600	T0268	IXYS
IXTT52N30P	300	52	0.066				3490	110	250	0.31	400	T0268	IXYS
IXFT52N30Q	300	52	0.06				5300	150	250	0.35	357	T0268	IXYS
IXTT69N30P	300	69	0.049				4960	156	250	0.25	500	T0268	IXYS
IXFT69N30P	300	69	0.049				4960	156	200	0.25	500	T0268	IXYS
IXTT88N30P	300	88	0.04				6300	180	250	0.21	600	T0268	IXYS
IXFT21N50F	500	21	0.25				2600	77	250	0.42	300	T0268	IXYS
IXTT26N50P	500	26	0.23				3600	65	300	0.31	400	T0268	IXYS
IXFT28N50F	500	28	0.19				3000	95	250	0.39	315	T0268	IXYS
IXTT30N50P	500	30	0.2				4150	70	400	0.27	460	T0268	IXYS
IXFT30N50P	500	30	0.2				4150	70	200	0.27	460	T0268	IXYS
IXTT36N50P	500	36	0.17				4700	82	400	0.23	540	T0268	IXYS
IXFT36N50P	500	36	0.17				5500	93	200	0.23	540	T0268	IXYS
IXFT42N50P2	500	42	0.145				5300	92	250	0.15	830	T0268	IXYS
IXFT44N50P	500	44	0.14				5440	98	200	0.19	650	T0268	IXYS
IXFT52N50P2	500	52	0.12				6800	113	250	0.13	960	T0268	IXYS
IXTT26N60P	600	26	0.27				4150	72	500	0.27	460	T0268	IXYS
IXFT26N60P	600	26	0.27				4150	72	200	0.27	460	T0268	IXYS
IXTT30N60P	600	30	0.24				5050	82	500	0.23	540	T0268	IXYS
IXFT30N60P	600	30	0.24				4000	82	200	0.25	500	T0268	IXYS
IXFT36N60P	600	36	0.19				5800	102	200	0.19	650	T0268	IXYS
IXFT50N60P3	600	50	0.145				6300	94	250	0.12	1040	T0268	IXYS
IXFT14N80P	800	14	0.72				3900	61	250	0.31	400	T0268	IXYS
IXFT16N80P	800	16	0.6				4000	70	250	0.27	460	T0268	IXYS
IXFT20N80P	800	20	0.52				4685	86	250	0.25	500	T0268	IXYS
IXFT24N80P	800	24	0.4				5800	100	250	0.19	650	T0268	IXYS
IXFT24N90P	900	24	0.42				7200	130	300	0.19	660	T0268	IXYS
IXTT1N100	1000	1.5	11				480	23	710	2.3	60	T0268	IXYS
IXFT4N100Q	1000	4	3				1050	39	250	0.8	156	T0268	IXYS
IXFT6N100F	1000	6	1.9				1770	54	250	0.65	180	T0268	IXYS
IXFT12N100F	1000	12	1.05				2700	77	250	0.42	300	T0268	IXYS
IXFT20N100P	1000	20	0.57				7300	126	300	0.19	660	T0268	IXYS
IXTT6N120	1200	6	2.4				1950	56	850	0.42	300	T0268	IXYS
IXFT16N120P	1200	16	0.95				6900	120	300	0.19	660	T0268	IXYS

NP = Automotive AEC-Q101

PLUS220 SMD



MOSFET

T0268



MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
	[V]	[A]	VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V	[pF]	[nC]	[ns]	[°C/W]			[W]

T0251

2SK4057-S15	25	30	0.0150		0.0250						19	T0251	RENESAS
2SK3991	25	30	0.0130	0.0302							21	T0251	RENESAS
2SK4069-S15	25	30	0.0120		0.0210						21	T0251	RENESAS
2SK4058-S15	25	48	0.0080		0.0145						29	T0251	RENESAS
2SK3918	25	48	0.0075	0.0222							29	T0251	RENESAS
2SK3919	25	64	0.0056	0.0137							36	T0251	RENESAS
2SK3992	25	64	0.0048	0.0108							38	T0251	RENESAS
2SK3993	25	64	0.0038	0.0074							40	T0251	RENESAS
2SK3366	30	20	0.0210		0.0330	0.0430					30	T0251	RENESAS
UT20N03	30	20	0.0155		0.023							T0251	UTC
UT30N03	30	30	0.0145		0.030							T0251	UTC
2SK3365	30	30	0.0140		0.0210	0.0290					36	T0251	RENESAS
2SK4091(1)-S27	30	30	0.0130		0.0210						21	T0251	RENESAS
2SK3367	30	36	0.0090		0.0120	0.0140					40	T0251	RENESAS
UT40N03	30	40	0.014		0.020							T0251	UTC
UT60N03	30	45	0.012		0.025							T0251	UTC
2SK4080-S15	30	48	0.0090		0.0150						29	T0251	RENESAS
2SK4090(1)-S27	30	64	0.006	0.011							3.6	T0251	RENESAS
UT75N03	30	75	0.005		0.007							T0251	UTC
UT85N03	30	85	0.005		0.010							T0251	UTC
UT100N03	30	100	0.0053		0.008							T0251	UTC
UT108N03	30	108	0.0042									T0251	UTC
2SK3716	40	60	0.0065		0.0091						84	T0251	RENESAS
2SK3813	40	60	0.0053		0.0071						84	T0251	RENESAS
NP22N055HHE	55	22	0.0390								45	T0251	RENESAS
NP22N055HLE	55	22	0.0370	0.0450	0.0510						45	T0251	RENESAS
NP32N055HHE	55	32	0.0250								66	T0251	RENESAS
NP32N055HLE	55	32	0.0240	0.0290	0.0330						66	T0251	RENESAS
NP34N055HHE	55	34	0.0190								88	T0251	RENESAS
NP34N055HLE	55	34	0.0180	0.0220	0.0240						88	T0251	RENESAS
NP36N055HHE	55	36	0.0140								120	T0251	RENESAS
NP36N055HLE	55	36	0.0130	0.0160	0.0180						120	T0251	RENESAS
2SK3492-TP	60	8	0.15			0.22	300	7.8			15	T0251	SANYO/ONS
IXTU12N06T	60	12	0.085				256	3.4	30	4.5	33	T0251	IXYS
2SK3615-TP	60	12	0.06			0.085	790	16			20	T0251	SANYO/ONS
H7N0603DL	60	30	0.015	0.022			3200				40	T0251	RENESAS
50N06	60	50	0.023									T0251	UTC
2SK3617-TP	100	6	0.225			0.315	530	13			15	T0251	SANYO/ONS
2SK3618-TP	100	8	0.13			0.18	880	24			20	T0251	SANYO/ONS
H7N1005DL	100	12	0.11		0.155		830				20	T0251	RENESAS
2SK3484	100	16	0.125		0.148						30	T0251	RENESAS
H7N1004DL	100	25	0.035		0.045		2800				-	T0251	RENESAS
2SK3483	100	28	0.052		0.059						40	T0251	RENESAS
2SK3482	100	36	0.033		0.039						50	T0251	RENESAS
2SK1954	180	4	0.65								20	T0251	RENESAS
2SK3978-TP	200	4	0.55			0.64	950	21			20	T0251	SANYO/ONS
2SK3979-TP	200	6	0.45				1090	18.2			20	T0251	SANYO/ONS
H5N2005DL	200	6	0.65			-	300				25	T0251	RENESAS
H5N2004DL	200	8	0.48			-	450				30	T0251	RENESAS
2SK3635	200	8	0.43								24	T0251	RENESAS
H5N2505DL	250	5	0.89			-	300				25	T0251	RENESAS
H5N2510DL	250	5	0.89			0.97	365				25	T0251	RENESAS
H5N2504DL	250	7	0.63			0.67	570				30	T0251	RENESAS
H5N2508DL	250	7	0.63			-	450				30	T0251	RENESAS
2SK3712	250	9	0.58									T0251	RENESAS
H5N5006DL	500	3	3			-	365				30	T0251	RENESAS
IXTU5N50P	500	4.8	1.4				620	12.6	400	1.4	89	T0251	IXYS
2SK3850-TP	600	0.7	18.5				96	4			15	T0251	SANYO/ONS
2SK3491-TP	600	1	11				135	6			20	T0251	SANYO/ONS
2SK4070	600	1	11									T0251	RENESAS
1N60L-A-TM3	600	1.2	11,500									T0251	UTC
IXTU1R4N60P	600	1.4	9.0				140	5.2	500	2.5	50	T0251	IXYS
2N60L-A-TM3	600	2	5,000									T0251	UTC
4N60L-A-TM3	600	4	2,500									T0251	UTC
1L60-B-TM3	650	1.2	11,500									T0251	UTC
2N60L-B-TM3	650	2	5,000									T0251	UTC
4N60L-B-TM3	650	4	2,500									T0251	UTC
IXTU01N80	800	0.1	50				60	8	1500	3	25	T0251	IXYS
IXTU1N80P	800	1	14				250	9	700	3	42	T0251	IXYS
2SK2631-TP	800	1	10				300	8			30	T0251	SANYO/ONS
IXTU2N80P	800	2	6				440	10.6	650	1.8	70	T0251	IXYS
IXTU01N100	1000	0.1	80				60	8	1500	3	25	T0251	IXYS
IXTU05N100	1000	0.75	17				260	7.8	710	3.1	40	T0251	IXYS

T0262

H7N0310LD	30	30	0.01			0.019(5V)	1400				50	T0262	RENESAS
UT30N03	30	30	0.0145		0.030							T0262	UTC
UT40N03	30	40	0.014		0.020							T0262	UTC
UT60N03	30	45	0.012		0.025							T0262	UTC
H7N0311LD	30	45	0.0088			0.016(5V)	1650				60	T0262	RENESAS
H7N0307LD	30	60	0.0058	0.0115			2500				90	T0262	RENESAS
H7N0308LD	30	70	0.0048	0.0085			3350				100	T0262	RENESAS
H7N0312LD	30	85	0.0033	0.0058			6900				125	T0262	RENESAS
UT100N03	30	100	0.0053		0.008							T0262	UTC
UT108N03	30	108	0.0042									T0262	UTC
H7N0401LD	40	95	0.0042	0.007			9300				100	T0262	RENESAS
50N06	60	50	0.023									T0262	UTC
60N06	60	60	0.018									T0262	UTC
70N06	60	70	0.0015									T0262	UTC
100N06	60	100	0.010									T0262	UTC
NP40N055NHE-S18	55	40	0.0230								66	T0262	RENESAS
NP40N055NLE-S18	55	40	0.0230	0.0280	0.0320						66	T0262	RENESAS
NP48N055NHE-S18	55	48	0.0170								85	T0262	RENESAS



MOSFET



MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics											Package	Manufacturer
	Ta=25°C												
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc	PD		
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
[V]	[A]	max [Ω]	max [Ω]	max [Ω]	max [Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			
NP48N055NLE-S18	55	48	0.0170	0.0210	0.0240						85	T0262	RENESAS
NP80N055NDG-S18	55	80	0.0073		0.1120						115	T0262	RENESAS
NP80N055NHE-S18	55	80	0.0110								120	T0262	RENESAS
NP80N055NLE-S18	55	80	0.0110	0.0130	0.0150						120	T0262	RENESAS
NP82N055NUG-S18	55	82	0.0060								143	T0262	RENESAS
NP82N055NHE-S18	55	82	0.0086								163	T0262	RENESAS
NP82N055NLE-S18	55	82	0.0084	0.0110	0.0120						163	T0262	RENESAS
NP84N055NHE-S18	55	84	0.0073								200	T0262	RENESAS
NP84N055NLE-S18	55	84	0.0070	0.0087	0.0094						200	T0262	RENESAS
NP88N055NHE-S18	55	88	0.0053								288	T0262	RENESAS
NP88N055NLE-S18	55	88	0.0052	0.0063	0.0068						288	T0262	RENESAS
NP90N055NUH-S18	55	90	0.0062								269	T0262	RENESAS
NP90N055NDH-S18	55	90	0.0059		0.0090						269	T0262	RENESAS
NP100N055NUH-S18	55	100	0.0053								337	T0262	RENESAS
NP100N055NDH-S18	55	100	0.0051		0.0076						337	T0262	RENESAS
UFZ44	60	50	0.028									T0262	UTC
H7N0608LD	60	70	0.008		0.012		6200				80	T0262	RENESAS
NP80N06NLG-S18	60	80	0.0100		0.0133						115	T0262	RENESAS
NP82N06NLG-S18	60	82	0.0074		0.0097						143	T0262	RENESAS
UF1010E	60	84	0.012									T0262	UTC
H7N0602LD	60	85	0.0052		0.009		9000				100	T0262	RENESAS
NP84N075NUE-S18	75	84	0.0125								200	T0262	RENESAS
NP88N075NUE-S18	75	88	0.0085								288	T0262	RENESAS
H7N1005LD	100	15	0.11		0.155		830				30	T0262	RENESAS
H7N1004LD	100	30	0.035		0.045		2800				50	T0262	RENESAS
H7N1002LD	100	75	0.01		0.015		9700				100	T0262	RENESAS
RJK1525DPJ	150	25	0.11			-	680				75	T0262	RENESAS
H5N1501LD-E	150	30	0.085			-	1350				-	T0262	RENESAS
RJK1526DPJ	150	50	0.042			-	1800				-	T0262	RENESAS
H5N2001LD	200	20	0.125			-	1350				75	T0262	RENESAS
RJK2006DPJ	200	40	0.059			-	1800				100	T0262	RENESAS
H5N2501LD-E	250	18	0.18			-	1350				-	T0262	RENESAS
IXT176N25T	250	76	0.039			-	4500	92	148	0.27	460	T0262	IXYS
H5N3005LD-E	300	15	0.255			-	1300				-	T0262	RENESAS
H5N5006LD	500	3.5	3			-	365				50	T0262	RENESAS
IXT112N50P	500	12	0.5			-	1830	29	400	0.62	200	T0262	IXYS
IXT110N60P	600	10	0.74			-	1610	32	500	0.62	200	T0262	IXYS

T0262
12PAK



MOSFET

T0220

H7N0203AB	20	90	0.003		0.0051		6800				100	T0220	RENESAS
2SK3574	30	48	0.0135		0.0240						29	T0220	RENESAS
H7N0307AB	30	60	0.0058		0.0115		2500				90	T0220	RENESAS
H7N0308AB	30	70	0.0048		0.0085		3350				100	T0220	RENESAS
UT75N03L-TA3	30	75	0.004		0.006							T0220	UTC
NP80N03MDE	30	80	0.007		0.011		2600	48		1.25	120	T0220	RENESAS
NP80N03MLE	30	80	0.007	0.009	0.011							T0220	RENESAS
2SK3575	30	83	0.0450		0.0640						105	T0220	RENESAS
H7N0312AB	30	85	0.0033		0.0058		6900				125	T0220	RENESAS
FS100UMJ-03F	30	100	0.004			0.0057	7600				-	T0220	RENESAS
NP60N04MUG	40	60	0.0063									T0220	RENESAS
NP70N04MUG	40	70	0.005									T0220	RENESAS
NP80N04MHE	40	80	0.008									T0220	RENESAS
2SK3431	40	83	0.0056			0.0089					100	T0220	RENESAS
2SK3432	40	83	0.0040			0.0069					100	T0220	RENESAS
NP84N04MHE	40	84	0.0052									T0220	RENESAS
NP86N04MHE	40	86	0.0044									T0220	RENESAS
NP88N04MHE	40	88	0.0043									T0220	RENESAS
NP90N04NDH	40	90	0.0038		0.0064		7500	130		0.65	230	T0220	RENESAS
NP90N04MUH	40	90	0.0041				5500	90		0.65	230	T0220	RENESAS
NP90N04MDH	40	90	0.0038		0.0064		7500	130		0.65	230	T0220	RENESAS
NP90N04MUG	40	90	0.003									T0220	RENESAS
NP100N04NDH	40	100	0.0033		0.0047		8700	165		0.52	288	T0220	RENESAS
NP100N04MUH	40	100	0.0035				6800	110		0.52	288	T0220	RENESAS
NP100N04MDH	40	100	0.0033		0.0047		8700	165		0.52	288	T0220	RENESAS
IXTP100N04T2	40	100	0.007				2690	25.5	34	1	150	T0220	IXYS
IXTP120N04T2	40	120	0.0061				3240	58	35	0.75	200	T0220	IXYS
IXTP160N04T2	40	160	0.005				4640	79	40	0.6	250	T0220	IXYS
IXTP220N04T2	40	220	0.0035				6820	112	45	0.42	360	T0220	IXYS
IXTP300N04T2	40	300	0.0025				10700	145	53	0.31	480	T0220	IXYS
NP40N055MHE	55	40	0.023									T0220	RENESAS
NP40N055MLE	55	40	0.023	0.028	0.032							T0220	RENESAS
NP48N055MHE	55	48	0.017	0.021								T0220	RENESAS
NP48N055MLE	55	48	0.017		0.024							T0220	RENESAS
IXTP64N055T	55	64	0.013				1420	37	30		130	T0220	IXYS
NP80N055MHE	55	80	0.011									T0220	RENESAS
NP80N055MLE	55	80	0.011	0.013	0.015							T0220	RENESAS
NP82N055MHE	55	82	0.0086									T0220	RENESAS
NP82N055MLE	55	82	0.0084	0.011	0.012							T0220	RENESAS
NP84N055MHE	55	84	0.0073									T0220	RENESAS
NP84N055MLE	55	84	0.007	0.0087	0.0094							T0220	RENESAS
NP88N055MHE	55	88	0.0053									T0220	RENESAS
NP88N055MLE	55	88	0.0052	0.0063	0.0068							T0220	RENESAS
NP90N055NDH	55	90	0.0055		0.008		7800	135		0.65	230	T0220	RENESAS
NP90N055MUH	55	90	0.0058				6200	100		0.65	230	T0220	RENESAS
NP90N055MDH	55	90	0.0055		0.008		7800	135		0.65	230	T0220	RENESAS
IXTP90N055T2	55	90	0.0084				2770	42	37	1	150	T0220	IXYS
NP100N055NDH	55	100	0.0048		0.0066		9500	170		0.52	288	T0220	RENESAS
NP100N055MUH	55	100	0.0049				7000	115		0.52	288	T0220	RENESAS
NP100N055MDH	55	100	0.0048		0.0066		9500	170		0.52	288	T0220	RENESAS
UTT60N04	40	60	0.0095									T0220	UTC
UF3205	55	110	0.008									T0220	UTC
IXTP110N055P	55	110	0.0135				2210	76	80	0.38	390	T0220	IXYS
IXTP110N055T2	55	110	0.0066				3060	57	38	0.82	180	T0220	IXYS
IXTP140N055T2	55	140	0.0054				4760	82	40	0.6	250	T0220	IXYS

TO 220

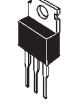


MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
[V]	[A]	max	max	max	max	[pF]	[nC]	[ns]	[°C/W]	[W]			
		[Ω]	[Ω]	[Ω]	[Ω]								
IXTP182N055T	55	182	0.005				4850	114	70	0.42	360	TO220	IXYS
IXTP200N055T2	55	200	0.0042				6970	109	49	0.42	360	TO220	IXYS
IXTP220N055T	55	220	0.004				7200	158	70	0.35	430	TO220	IXYS
IXTP240N055T	55	240	0.0036				7600	170	70	0.31	480	TO220	IXYS
IXTP260N055T2	55	260	0.0033				10800	140	60	0.31	480	TO220	IXYS
15N06L-TA3	60	15	0.1									TO220	UTC
30N06L-TA3	60	30	0.04									TO220	UTC
2SK3823	60	40	0.026			0.04	1780	40			45	TO220	SANYO/ONS
2SK3433	60	40	0.0260			0.0410					47	TO220	RENESAS
2SK3434	60	48	0.0200			0.0310					56	TO220	RENESAS
50N06L-TA3	60	50	0.023									TO220	UTC
60N06L-TA3	60	60	0.018									TO220	UTC
2SK3824	60	60	0.015			0.022	3500	67			60	TO220	SANYO/ONS
FS70UMJ-06F	60	70	0.007			0.0083	8500				-	TO220	RENESAS
H7N0608AB	60	70	0.008		0.012		6200				80	TO220	RENESAS
70N06	60	70	0.0015									TO220	UTC
2SK3354	60	83	0.0080			0.0120					100	TO220	RENESAS
2SK3355	60	83	0.0058			0.0088					100	TO220	RENESAS
UF1010EL-TA3	60	84	0.0120									TO220	UTC
2SK4145-S19	60	84	0.0100								84	TO220	RENESAS
UK4145	60	84	0.007									TO220	UTC
2SK4202-S19	60	84	0.0075								104	TO220	RENESAS
UTT80N06	60	84	0.008									TO220	UTC
UF1010E	60	84	0.012									TO220	UTC
H7N0602AB	60	85	0.0052		0.009		9000				100	TO220	RENESAS
RJK0629DPN	60	85	0.0045		0.0066		4100				100	TO220	RENESAS
100N06	60	100	0.010									TO220	UTC
UTT100N06	60	110	0.007		0.010							TO220	UTC
UTT120N06	60	120	0.005									TO220	UTC
UTT150N06	60	150	0.0032									TO220	UTC
IXTP130N065T2	65	130	0.0066				4800	79	41	0.6	250	TO220	IXYS
IXTP55N075T	75	55	0.0195				1400	33	50		130	TO220	IXYS
IXTP70N075T2	75	70	0.012				2580	46	48	1	150	TO220	IXYS
IXTP76N075T	75	76	0.012				2580	57	80	0.85	176	TO220	IXYS
2SK3511	75	83	0.0125								100	TO220	RENESAS
UTT75N08	75	80	0.0095									TO220	UTC
75N75A	75	80	0.0095									TO220	UTC
2SK3510	75	83	0.0085								125	TO220	RENESAS
NP84N075MUJ	75	84	0.0125									TO220	RENESAS
NP88N075MUJ	75	88	0.0085									TO220	RENESAS
IXTP90N075T2	75	90	0.01				3290	54	50	0.82	180	TO220	IXYS
IXTP98N075T	75	98	0.01				3100	80	100	0.75	200	TO220	IXYS
UTT100N08	75	100	0.006									TO220	UTC
IXTP120N075T2	75	120	0.0077				4740	78	50	0.6	250	TO220	IXYS
IXTP160N075T	75	160	0.006				4950	112	80	0.42	360	TO220	IXYS
IXTP170N075T2	75	170	0.0054				6860	109	63	0.42	360	TO220	IXYS
IXTP200N075T	75	200	0.005				6800	160	80	0.35	430	TO220	IXYS
IXTP220N075T	75	220	0.0045				7700	165	80	0.31	480	TO220	IXYS
IXFP230N075T2	75	230	0.0042				10500	178	59	0.31	480	TO220	IXYS
IXTP230N075T2	75	230	0.0042				10500	178	66	0.31	480	TO220	IXYS
60N08	80	60	0.018									TO220	UTC
H8N0801AB	80	60	0.0105		0.0138		4750				-	TO220	RENESAS
70N08	80	70	0.014									TO220	UTC
80N08	80	80	0.011									TO220	UTC
IXTP50N085T	85	50	0.023				1460	34	55	1.19	130	TO220	IXYS
IXTP70N085T	85	70	0.0135				2570	59	90	0.85	176	TO220	IXYS
IXTP88N085T	85	88	0.011				3140	69	90	0.65	230	TO220	IXYS
IXTP152N085T	85	152	0.007				5500	114	90	0.42	360	TO220	IXYS
IXTP180N085T	85	180	0.0055				8800	170	63	0.35	430	TO220	IXYS
IXTP200N085T	85	200	0.005				7600	152	90	0.31	480	TO220	IXYS
2SK3826	100	26	0.06			0.08	2150	42			45	TO220	SANYO/ONS
2SK3481	100	30	0.05		0.058							TO220	RENESAS
H7N1004AB	100	30	0.035		0.045		2800				50	TO220	RENESAS
2SK3481	100	30	0.0500		0.0580						56	TO220	RENESAS
2SK3827	100	40	0.033			0.042	4200	79			60	TO220	SANYO/ONS
IXTP44N10T	100	44	0.03				1262	33	100	1.19	130	TO220	IXYS
2SK3480	100	50	0.0310		0.0360						84	TO220	RENESAS
2SK3828	100	52	0.025		0.032		6250	117			75	TO220	SANYO/ONS
UTT60N10	100	60	0.165		0.024							TO220	UTC
IXTP60N10T	100	60	0.018				2650	49	59	0.85	176	TO220	IXYS
RJK1021DPN	100	70	0.02		-		2600				100	TO220	RENESAS
UTT72N10	100	72	0.015		0.021							TO220	UTC
IXTP75N10P	100	75	0.025				2250	74	120	0.42	360	TO220	IXYS
H7N1002AB	100	75	0.01		0.015(4.5V)		9700				100	TO220	RENESAS
IXTP80N10T	100	80	0.014				3040	60	100	0.65	230	TO220	IXYS
RJK1008DPN-00	100	80	0.011				5200				125	TO220	RENESAS
2SK4201-S19	100	80	0.0130								125	TO220	RENESAS
2SK3479	100	83	0.0110		0.0130						125	TO220	RENESAS
IXFP130N10T	100	130	0.0091				5080	104	67	0.42	360	TO220	IXYS
IXTP160N10T	100	160	0.007				6600	132	60	0.35	430	TO220	IXYS
IXTP180N10T	100	180	0.0064				6900	151	72	0.31	480	TO220	IXYS
IXTP80N12T2	120	80	0.017				4740	80	90	0.46	325	TO220	IXYS
IXTP42N15T	150	42	0.045				1880	21	100	0.75	200	TO220	IXYS
RJK1536DPN	150	50	0.03		-		5000				125	TO220	RENESAS
IXTP56N15T	150	56	0.036				2250	34	100	0.5	300	TO220	IXYS
IXTP62N15P	150	62	0.04				2250	70	150	0.42	350	TO220	IXYS
IXTP90N15T	150	90	0.02				4100	80	110	0.33	455	TO220	IXYS
IXTP102N15T	150	102	0.018				5220	87	97	0.33	455	TO220	IXYS
IXFP102N15T	150	102	0.018				5220	87		0.33	455	TO220	IXYS
IXFP110N15T2	150	110	0.013				8600	150	85	0.31	480	TO220	IXYS
UF630L-TA3	200	9	0.4									TO220	UTC
2SK3109	200	10	0.4000								50	TO220	RENESAS
UF640L-TA3	200	18	0.18									TO220	UTC
2SK3111	200	20	0.1800								65	TO220	RENESAS

TO 220



MOSFET



MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
[V]	[A]	max	max	max	max	[pF]	[nC]	[ns]	[°C/W]	[W]			
		[Ω]	[Ω]	[Ω]	[Ω]								
2SK3112	200	25	0.1100							100	T0220	RENESAS	
IXTP32N20T	200	32	0.072			1760	38	110	0.75	200	T0220	IXYS	
IXTP48N20T	200	48	0.05			3090	60	130	0.5	250	T0220	IXYS	
IXTP50N20P	200	50	0.06			2720	70	150	0.42	360	T0220	IXYS	
IXTP60N20T	200	60	0.04			4530	73	118	0.3	500	T0220	IXYS	
IXTP86N20T	200	86	0.029			4500	90	140	0.31	480	T0220	IXYS	
UF634L-TA3	250	8.1	0.45								T0220	UTC	
2SK3294	250	20	0.1600							100	T0220	RENESAS	
IXTP42N25P	250	42	0.084			2300	70	200	0.42	300	T0220	IXYS	
IXTP50N25T	250	50	0.06			4000	78	166	0.31	400	T0220	IXYS	
IXTP76N25T	250	76	0.039			4920	92	148	0.27	460	T0220	IXYS	
IXTP60N28TM-A	280	18	0.058			5070	84	170	2.5	50	T0220	IXIS	
IXTP50N28T	280	50	0.06			4070	87	180	0.37	340	T0220	IXYS	
IXTP36N30P	300	36	0.11			2250	70	250	0.42	300	T0220	IXYS	
6N40L-TA3	400	6	1			-					T0220	UTC	
UF730L-TA3	400	6.5	1								T0220	UTC	
UF740L-TA3	400	10	0.55			-					T0220	UTC	
11N40L-TA3	400	11.4	0.48			-					T0220	UTC	
IXTP1R6N50P	500	1.6	6.5			140	3.9	400	2.9	43	T0220	IXYS	
IXTP2R4N50P	500	2.4	3.75			240	6.1	400	2.25	55	T0220	IXYS	
IXTP3N50P	500	3.6	2			409	9.3	400	1.8	70	T0220	IXYS	
UF830L-TA3	500	4.5	1.5			-					T0220	UTC	
IXTP5N50P	500	4.8	1.4			620	12.6	400	1.4	89	T0220	IXYS	
2SK3305B	500	5	1.5								T0220	RENESAS	
IXTP6N50P	500	6	1.1			740	14.6	400	1.25	100	T0220	IXYS	
UF840L-TA3	500	8	0.85			-					T0220	UTC	
IXTP8N50P	500	8	0.8			1050	20	400	0.83	150	T0220	IXYS	
2SK3325B	500	10	0.85								T0220	RENESAS	
IXTP12N50P	500	12	0.5			1830	29	400	0.62	200	T0220	IXYS	
IXFP12N50P	500	12	0.5			1830	29	200	0.62	200	T0220	IXYS	
IXTP16N50P	500	16	0.4			2250	43	400	0.42	300	T0220	IXYS	
IXFP16N50P	500	16	0.4			2250	43	200	0.42	300	T0220	IXYS	
IXTP450P2	500	16	0.33			2530	43	400	0.42	300	T0220	IXYS	
IXTP460P2	500	24	0.27			2890	48	400	0.26	480	T0220	IXYS	
1N60L-A-TA3	600	1.2	11.5			-					T0220	UTC	
IXTP1R4N60P	600	1.4	9			140	5.2	500	2.5	50	T0220	IXYS	
2N60L-A-TA3	600	2	5			-					T0220	UTC	
IXTP2N60P	600	2	5.1			240	7	400	2.25	55	T0220	IXYS	
3N60L-A-TA3	600	3	3.6			-					T0220	UTC	
IXTP3N60P	600	3	2.9			411	9.8	500	1.8	70	T0220	IXYS	
4N60L-A-TA3	600	4	2.5			-					T0220	UTC	
IXTP4N60P	600	4	2			635	13	500	1.41	89	T0220	IXYS	
5N60L-A-TA3	600	4.5	2.5			-					T0220	UTC	
IXTP5N60P	600	5	1.7			750	14.2	500	1.25	100	T0220	IXYS	
6N60L-A-TA3	600	6.2	1.5			-					T0220	UTC	
7N60AL-A-TA3	600	7	1.2			-					T0220	UTC	
IXTP7N60P	600	7	1.1			1080	20	500	0.83	150	T0220	IXYS	
7N60L-A-TA3	600	7.4	1			-					T0220	UTC	
7N60ZL-TA3	600	7.4	1			-					T0220	UTC	
8N60L-A-TA3	600	7.5	1.2			-					T0220	UTC	
10N60L-A-TA3	600	9.5	0.73			-					T0220	UTC	
UK2996L-TA3	600	10	1			-					T0220	UTC	
IXTP10N60P	600	10	0.74			1610	32	500	0.62	200	T0220	IXYS	
IXFP10N60P	600	10	0.74			1610	32	200	0.62	200	T0220	IXYS	
IXKP10N60C5	600	10	0.385			790	17	260	1.15	109	T0220	IXYS	
12N60L-A-TA3	600	12	0.7			-					T0220	UTC	
IXKP13N60C5	600	13	0.3			1100	20	300	0.95	130	T0220	IXYS	
IXTP14N60P	600	14	0.55			2500	36	500	0.42	300	T0220	IXYS	
IXFP14N60P	600	14	0.55			2500	36	200	0.42	300	T0220	IXYS	
IXKP20N60C5	600	20	0.2			1520	32	340	0.6	208	T0220	IXYS	
IXKP24N60C5	600	24	0.165			2000	40	390	0.5	250	T0220	IXYS	
1N60L-B-TA3	650	1.2	11.5			-					T0220	UTC	
2N60L-B-TA3	650	2	5			-					T0220	UTC	
3N60L-B-TA3	650	3	3.6			-					T0220	UTC	
4N60L-B-TA3	650	4	2.5			-					T0220	UTC	
5N60L-B-TA3	650	4.5	2.5			-					T0220	UTC	
6N60L-B-TA3	650	6.2	1.5			-					T0220	UTC	
7N65L-TA3	650	7	1.35			-					T0220	UTC	
7N60AL-B-TA3	650	7	1.2			-					T0220	UTC	
7N60L-B-TA3	650	7.4	1			-					T0220	UTC	
8N60L-B-TA3	650	7.5	1.2			-					T0220	UTC	
10N60L-B-TA3	650	9.5	0.73			-					T0220	UTC	
12N60L-B-TA3	650	12	0.7			-					T0220	UTC	
7N70L-TA3	700	7	1.5			-					T0220	UTC	
IXTP1N80P	800	1	14			250	9	700	3	42	T0220	IXYS	
IXTP1N80	800	1	11			220	8.5	710	3.1	40	T0220	IXYS	
IXTP2N80	800	2	6.2			440	22	510	2.3	54	T0220	IXYS	
IXTP2N80P	800	2	6			440	10.6	650	1.8	70	T0220	IXYS	
3N80L-TA3	800	2.5	4.5								T0220	UTC	
IXTP4N80P	800	3.5	3			750	15	600	1.25	100	T0220	IXYS	
IXFP7N80P	800	7	1.44			1890	32	250	0.62	200	T0220	IXYS	
IXFP10N80P	800	10	1.1			2300	40	250	0.42	300	T0220	IXYS	
2SK1455	900	0.2	70			45				30	T0220	SANYO/ONS	
2SK1338	900	2	7							50	T0220	Renesas	
2SK1456	900	3	6			350				60	T0220	SANYO/ONS	
3N90L-TA3	900	3	4.8								T0220	UTC	
2SK1807	900	4	4							50	T0220	Renesas	
2SK1457	900	5	3.6			700				70	T0220	SANYO/ONS	
IXTP05N100	1000	0.75	17			260	7.8	710	3.1	40	T0220	IXYS	
IXTP08N100P	1000	0.8	20			240	11.3	750	3	42	T0220	IXYS	
IXTP1N100P	1000	1	15			331	15.5	750	2.5	50	T0220	IXYS	
IXTP1R4N100P	1000	1.4	11			450	17.8	750	2	63	T0220	IXYS	
IXTP1N100	1000	1.5	11			480	23	710	2.3	54	T0220	IXYS	
IXTP2N100P	1000	2	7.5			655	24.3	800	1.45	86	T0220	IXYS	

NP = Automotive AEC-Q101

TO 220



MOSFET

MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer		
	Ta=25°C													
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD	
			VGS = 10V		VGS = 5V									VGS = 4,5V
max			max	max	max	[pF]					[nC]	[ns]		[°C/W]
	[V]	[A]	[Ω]	[Ω]	[Ω]	[Ω]								
IXTP3N100P	1000	3	4,8				1100	39	820	1	125	TO220	IXYS	
IXFP4N100P	1000	4	3,3				1456	26	300	0,83	150	TO220	IXYS	
IXFP4N100Q	1000	4	3				1050	39	250	0,8	156	TO220	IXYS	
IXFP5N100P	1000	5	2,8				1830	33,4	200	0,5	250	TO220	IXYS	
IXFP7N100P	1000	7	1,8				2590	47	300	0,42	30	TO220	IXYS	
IXTP06N120P	1200	0,6	32				236	13,3	900	3	42	TO220	IXYS	
IXTP08N120P	1200	0,8	25				333	14	900	2,5	50	TO220	IXYS	
IXTP1N120P	1200	1	20				445	17,6	900	2	63	TO220	IXYS	
IXTP1R4N120P	1200	1,4	13				666	24,8	900	1,45	86	TO220	IXYS	
IXTP2R4N120P	1200	2,4	7,5				1207	37	920	1	125	TO220	IXYS	
IXTP3N120	1200	3	4,5				1050	39	700	0,8	150	TO220	IXYS	
IXFP3N120	1200	3	4,5				1050	39	250	0,62	200	TO220	IXYS	

Plus220

IXTV270N055T2	55	270	0,003				9700	167	63	0,24	625	Plus220	IXYS
IXTV102N20T	200	102	0,023				6800	114	130	0,2	750	Plus220	IXYS
IXTV86N25T	250	86	0,037				5330	105	156	0,23	540	Plus220	IXYS
IXTV96N25T	250	96	0,029				6100	114	158	0,2	625	Plus220	IXYS

TO247 / TO3P

IXTH300N04T2	40	300	0,0025				10700	145	53	0,31	480	TO247	IXYS
IXTH420N04T2	40	420	0,002				19700	315	74	0,16	935	TO247	IXYS
IXTH500N04T2	40	500	0,0016				25000	405	84	0,15	1000	TO247	IXYS
IXTH260N055T2	55	260	0,0033				10800	140	60	0,31	480	TO247	IXYS
IXTH360N055T2	55	360	0,0024				20000	330	78	0,16	935	TO247	IXYS
IXTH440N055T2	55	440	0,0018				25000	405	76	0,15	1000	TO247	IXYS
RJK0629DPK	60	85	0,0045	0,0066			4100				100	TO3P	RENESAS
IXFH230N075T2	75	230	0,0042				10500	178	59	0,31	480	TO247	IXYS
IXFH340N075T2	75	340	0,0032				19000	300	75	0,16	935	TO247	IXYS
IXFH400N075T2	75	400	0,0023				24000	420	77	0,15	1000	TO247	IXYS
2SK3832	100	30	0,06			0,08	2150	42			65	TO3P	SANYO/ONS
2SK3833	100	48	0,034			0,043	4200	79			85	TO3P	SANYO/ONS
2SK3834	100	60	0,026			0,034	6250	117			100	TO3P	SANYO/ONS
IXFH110N15T2	100	110	0,013				8600	150	85	0,31	480	TO247	IXYS
IXTH130N10T	100	130	0,0091				5080	104	67	0,42	360	TO247	IXYS
IXTQ130N10T	100	130	0,0091				5080	104	67	0,42	360	TO3P	IXYS
IXTH160N10T	100	160	0,007				6600	132	100	0,35	430	TO247	IXYS
IXTQ160N10T	100	160	0,007				6600	132	100	0,35	430	TO3P	IXYS
IXFH170N10P	100	170	0,009				6000	198	150	0,21	714	TO247	IXYS
IXTQ170N10P	100	170	0,009				6000	198	120	0,21	714	TO3P	IXYS
IXTH180N10T	100	180	0,0064				6900	151	100	0,31	480	TO247	IXYS
IXTQ180N10T	100	180	0,0064				6900	151	100	0,31	480	TO3P	IXYS
IXTH200N10T	100	200	0,0055				9400	152	76	0,27	550	TO247	IXYS
IXTQ200N10T	100	200	0,0055				9400	152	76	0,27	550	TO3P	IXYS
IXFH230N10T	100	230	0,0047				15300	250	82	0,23	650	TO247	IXYS
IXFH320N10T2	100	320	0,0035				25000	430	98	0,15	1000	TO247	IXYS
IXTQ62N15P	150	62	0,04				2250	70	150	0,42	350	TO3P	IXYS
H5N1503P	150	70	0,027			-	5100				-	TO3P	RENESAS
RJK1529DPK	150	70	0,025			-	2900				150	TO3P	RENESAS
IXTH90N15T	150	90	0,02				4100	80	110	0,33	455	TO247	IXYS
IXTQ90N15T	150	90	0,02				4100	80	110	0,33	455	TO3P	IXYS
IXFH96N15P	150	96	0,024				3500	110	200	0,31	480	TO247	IXYS
IXTQ96N15P	150	96	0,024				3500	110	150	0,31	480	TO3P	IXYS
H5N1506P	150	98	0,016			-	4900				150	TO3P	RENESAS
IXTH102N15T	150	102	0,018				5220	87	97	0,33	455	TO247	IXYS
IXFH102N15T	150	102	0,018				5220	87		0,33	455	TO247	IXYS
IXTQ102N15T	150	102	0,018				5220	87	97	0,33	455	TO3P	IXYS
IXFH110N15T2	150	110	0,013				6800	150	85	0,31	480	TO247	IXYS
IXFH120N15P	150	120	0,016				4900	150	200	0,25	600	TO247	IXYS
IXTQ120N15P	150	120	0,016				4900	150	150	0,25	600	TO3P	IXYS
IXTH130N15T	150	130	0,012				9800	113	100	0,2	750	TO247	IXYS
IXTQ130N15T	150	130	0,012				9800	113	100	0,2	750	TO3P	IXYS
IXFH150N15P	150	150	0,013				5800	190	200	0,21	714	TO247	IXYS
IXTQ150N15P	150	150	0,013				5800	190	150	0,21	714	TO3P	IXYS
IXFH160N15T2	150	160	0,009				15000	253	*	0,17	880	TO247	IXYS
IXTH160N15T	150	160	0,096				8800	160	115	0,18	830	TO247	IXYS
IXFH160N15T	150	160	0,0096				8800	160	0,09	0,18	830	TO247	IXYS
IXFH150N17T2	175	150	0,012				14600	233	*	0,17	880	TO247	IXYS
IXFH150N17T	175	150	0,012				9800	155	96	0,18	830	TO247	IXYS
IXTH150N17T	175	150	0,012				9800	155	120	0,18	830	TO247	IXYS
IXTQ48N20T	200	48	0,05				3090	60	130	0,5	250	TO3P	IXYS
IXTQ50N20P	200	50	0,06				2720	70	150	0,42	360	TO3P	IXYS
IXFH60N20F	200	60	0,038				2930	100	200	0,39	320	TO247	IXYS
IXTQ60N20T	200	60	0,04				4530	73	118	0,3	500	TO3P	IXYS
H5N2003P	200	60	0,042			-	5150				150	TO3P	RENESAS
IXFH74N20P	200	74	0,034				3300	107	200	0,31	480	TO247	IXYS
IXTQ74N20P	200	74	0,034				3300	107	160	0,31	480	TO3P	IXYS
IXTQ86N20T	200	86	0,029				4500	90	140	0,31	480	TO3P	IXYS
IXTH96N20P	200	96	0,024				4800	145	160	0,25	600	TO247	IXYS
IXFH96N20P	200	96	0,024				4800	145	200	0,25	600	TO247	IXYS
IXTQ96N20P	200	96	0,024				4800	145	160	0,25	600	TO3P	IXYS
H5N2008P	200	96	0,023			-	4900				150	TO3P	RENESAS
IXTH102N20T	200	102	0,023				6800	114	130	0,2	750	TO247	IXYS
IXTQ102N20T	200	102	0,023				6800	114	130	0,2	750	TO3P	IXYS
IXFH120N20P	200	120	0,022				6000	152	200	0,21	714	TO247	IXYS
IXTQ120N20P	200	120	0,022				6000	152	180	0,21	714	TO3P	IXYS
IXTH130N20T	200	130	0,016				8800	150	150	0,18	830	TO247	IXYS
H5N2305P	230	60	0,038			-	5200				-	TO3P	RENESAS
H5N2509P	250	30	0,069			-	3600				150	TO3P	RENESAS
IXTQ42N25P	250	42	0,084				2300	70	200	0,42	300	TO3P	IXYS
IXTH50N25T	250	50	0,05				4000	78	166	0,31	400	TO247	IXYS
IXTQ50N25T	250	50	0,05				4000	78	166	0,31	400	TO3P	IXYS
H5N2503P	250	50	0,055			-	5200				150	TO3P	RENESAS
H5N2507P	250	50	0,055			-	5000				-	TO3P	RENESAS
RJK2508DPK	250	50	0,064			-	2600				150	TO3P	RENESAS

MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V								
[V]	[A]	max	max	max	max	[pF]	[nC]	[ns]	[°C/W]	[W]			
		[Ω]	[Ω]	[Ω]	[Ω]								
H5N2515P	250	55	0.044				3800				200	T03P	RENESAS
IXTQ64N25P	250	64	0.049				3450	105	200	0.31	400	T03P	IXYS
H5N2519P	250	65	0.035				4900				150	T03P	RENESAS
RJK2511DPK	250	65	0.034				4900				-	T03P	RENESAS
H5N2514P	250	70	0.03				5500				-	T03P	RENESAS
IXTH76N25T	250	76	0.039				4500	92	148	0.27	460	T0247	IXYS
IXTQ76N25T	250	76	0.039				4500	92	148	0.27	460	T03P	IXYS
IXTQ82N25P	250	82	0.035				4800	142	200	0.25	500	T03P	IXYS
IXTH86N25T	250	86	0.037				5330	105	156	0.23	540	T0247	IXYS
IXTQ86N25T	250	86	0.037				5330	105	156	0.23	540	T03P	IXYS
IXTH96N25T	250	96	0.029				6100	114	158	0.2	625	T0247	IXYS
IXTQ96N25T	250	96	0.029				6100	114	158	0.2	625	T03P	IXYS
IXFH100N25P	250	100	0.027				6300	185	200	0.21	600	T0247	IXYS
IXTQ100N25P	250	100	0.027				6300	185	200	0.21	600	T03P	IXYS
IXTH110N25T	250	110	0.024				9400	157	170	0.18	694	T0247	IXYS
IXFH110N25T	250	110	0.024				9400	157	170	0.18	694	T0247	IXYS
IXTQ50N28T	280	50	0.06				4070	87	180	0.37	340	T03P	IXYS
H5N2801P	280	60	0.043				5400				150	T03P	RENESAS
IXTQ88N28T	280	88	0.044				5750	138	200	0.2	625	T03P	IXYS
H5N3004P	300	25	0.093				3600				150	T03P	RENESAS
IXTQ36N30P	300	36	0.11				2250	70	250	0.42	300	T03P	IXYS
H5N3003P	300	40	0.069				5150				150	T03P	RENESAS
H5N3008P	300	40	0.069				5150				-	T03P	RENESAS
RJK3008DPK	300	40	0.093				2600				-	T03P	RENESAS
IXFH52N30P	300	52	0.066				3490	110	200	0.31	400	T0247	IXYS
IXFH52N30Q	300	52	0.06				5300	150	250	0.35	357	T0247	IXYS
IXTQ52N30P	300	52	0.066				3490	110	250	0.31	400	T03P	IXYS
IXFH69N30P	300	69	0.049				4960	156	200	0.25	500	T0247	IXYS
IXTQ69N30P	300	69	0.049				4960	156	250	0.25	500	T03P	IXYS
IXTH88N30P	300	88	0.04				6300	180	250	0.21	600	T0247	IXYS
IXFH88N30P	300	88	0.04				6300	180	200	0.21	600	T0247	IXYS
IXTQ88N30P	300	88	0.04				6300	180	250	0.21	600	T03P	IXYS
H5N3011P	300	88	0.048				5000				150	T03P	RENESAS
RJK4014DPK	400	24	0.24				1800				150	T03P	RENESAS
RJK4015DPK	400	30	0.165				2600				-	T03P	RENESAS
RJK4018DPK	400	43	0.1				4100				-	T03P	RENESAS
2SK1448	450	8	0.8				1200				100	T03P	SANYO/ONS
2SK1449	450	12	0.6				1600				120	T03P	SANYO/ONS
2SK1450	450	20	0.3				3200				150	T03P	SANYO/ONS
RJK4514DPK	450	22	0.3				1800				-	T03P	RENESAS
RJK4515DPK	450	27	0.2				2600				-	T03P	RENESAS
RJK4518DPK	450	39	0.13				4100				-	T03P	RENESAS
IXFH12N50F	500	12	0.4				1870	54	250	0.65	180	T0247	IXYS
IXFT12N50F	500	12	0.4				1870	54	250	0.65	180	T0247	IXYS
RJK5013DPK	500	14	0.465				1450				-	T03P	RENESAS
IXFH16N50P	500	16	0.4				2250	43	200	0.42	300	T0247	IXYS
IXTQ16N50P	500	16	0.4				2250	43	400	0.42	300	T03P	IXYS
IXTH450P2	500	16	0.33				2530	43	400	0.42	300	T0247	IXYS
IXTQ450P2	500	16	0.33				2530	43	400	0.42	300	T03P	IXYS
RJK5014DPK	500	19	0.38				1800				150	T03P	RENESAS
RJL5014DPK	500	19	0.4				1700				-	T03P	RENESAS
IXFH21N50F	500	21	0.25				2600	77	250	0.42	300	T0247	IXYS
IXTH22N50P	500	22	0.27				2630	50	400	0.35	350	T0247	IXYS
IXFH22N50P	500	22	0.27				2630	50	200	0.35	350	T0247	IXYS
IXTQ22N50P	500	22	0.27				2630	50	400	0.35	350	T03P	IXYS
RJL5015DPK	500	22	0.27				2400				-	T03P	RENESAS
IXTH460P2	500	24	0.27				2890	48	400	0.26	480	T0247	IXYS
IXTQ460P2	500	24	0.27				2890	48	400	0.26	480	T03P	IXYS
IXFQ24N50P2	500	24	0.27				2890	48	200	0.26	480	T03P	IXYS
H5N5007P	500	25	0.225				3900				150	T03P	RENESAS
H5N5012P	500	25	0.225				3600				-	T03P	RENESAS
RJK5015DPK	500	25	0.24				2600				-	T03P	RENESAS
IXFH26N50P	500	26	0.23				3600	60	200	0.31	400	T0247	IXYS
WBP4001	500	26	0.2				2250	87	115		-	T03PB	SANYO/ONS
IXTQ26N50P	500	26	0.23				3600	65	300	0.31	400	T03P	IXYS
IXFH28N50P	500	28	0.19				3000	95	250	0.39	315	T0247	IXYS
IXTH30N50P	500	30	0.2				4150	70	400	0.27	460	T0247	IXYS
IXFH30N50P	500	30	0.2				4150	70	200	0.27	460	T0247	IXYS
IXTQ30N50P	500	30	0.2				4150	70	400	0.27	460	T03P	IXYS
H5N5015P	500	32	0.17				4600				175	T03P	RENESAS
RJK5018DPK	500	35	0.155				4100				-	T03P	RENESAS
RJL5018DPK	500	35	0.17				3790				-	T03P	RENESAS
IXTH36N50P	500	36	0.17				4700	82	400	0.23	540	T0247	IXYS
IXFH36N50P	500	36	0.17				5500	93	200	0.23	540	T0247	IXYS
IXTQ36N50P	500	36	0.17				4700	82	400	0.23	540	T03P	IXYS
RJL5020DPK	500	38	0.135				4750				-	T03P	RENESAS
IXFH40N50Q2	500	40	0.16				4850	110	250	0.25	560	T0247	IXYS
RJK5020DPK	500	40	0.118				5150				-	T03P	RENESAS
IXFH42N50P2	500	42	0.145				5300	92	250	0.15	830	T0247	IXYS
IXTQ470P2	500	42	0.145				5400	88	400	0.15	830	T03P	IXYS
IXFH44N50P	500	44	0.14				5440	98	200	0.19	650	T0247	IXYS
IXTQ44N50P	500	44	0.14				5440	98	400	0.19	650	T03P	IXYS
IXTQ480P2	500	52	0.12				6800	108	400	0.13	960	T03P	IXYS
IXFH52N50P2	500	52	0.12				6800	113	250	0.13	960	T0247	IXYS
IXFQ60N50P3	500	60	0.1				6250	96	250	0.12	1040	T03P	IXYS
IXFH60N50P3	500	60	0.1				6250	96	250	0.12	1040	T0247	IXYS
IXFH14N60P	600	14	0.55				2500	36	200	0.42	300	T0247	IXYS
IXTQ14N60P	600	14	0.55				2500	36	500	0.42	300	T03P	IXYS
RJK6014DPK	600	16	0.575				1800				-	T03P	RENESAS
IXFH18N60P	600	18	0.4				2500	50	200	0.35	360	T0247	IXYS
IXTQ18N60P	600	18	0.42				2500	49	500	0.35	360	T03P	IXYS
RJL6015DPK	600	19	0.41				2370				-	T03P	RENESAS
IXKH20N60C5	600	20	0.2				1520	32	340	0.6	208	T0247	IXYS
H5N6001P	600	20	0.38				4640				150	T03P	RENESAS

NP = Automotive AEC-Q101

T0247



T03P



MOSFET

MOSFET

N-Channel

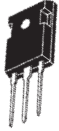
Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
max			max	max	max								
[V]	[A]	[Ω]	[Ω]	[Ω]	[Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			
RJK6015DPK	600	21	0.36				2600			150	T03P	RENESAS	
IXFH22N60P	600	22	0.35				3600	58	200	0.31	400	T0247	IXYS
IXTQ22N60P	600	22	0.35				3600	62	500	0.31	400	T03P	IXYS
WPB4002	600	23	0.36				2200	84	115			T03PB	SANYO/ONS/
IXKH24N60C5	600	24	0.165				2000	40	390	0.5	250	T0247	IXYS
IXTH26N60P	600	26	0.27				4150	72	500	0.27	460	T0247	IXYS
IXFH26N60P	600	26	0.27				4150	72	200	0.27	460	T0247	IXYS
IXTQ26N60P	600	26	0.27				4150	72	500	0.27	460	T03P	IXYS
RJL6018DPK	600	27	0.265				3830					T03P	RENESAS
IXTH30N60P	600	30	0.24				5050	82	500	0.23	540	T0247	IXYS
IXFH30N60P	600	30	0.24				4000	82	200	0.25	500	T0247	IXYS
IXKH30N60C5	600	30	0.125				2500	53	430	0.4	310	T0247	IXYS
IXTQ30N60P	600	30	0.24				5050	82	500	0.23	540	T03P	IXYS
RJK6018DPK	600	30	0.235				4100				200	T03P	RENESAS
RJL6020DPK	600	30	0.21				4750					T03P	RENESAS
RJK6020DPK	600	32	0.175				5150					T03P	RENESAS
IXKH35N60C5	600	35	0.1				2800	60	450	0.35	357	T0247	IXYS
IXFH36N60P	600	36	0.19				5800	102	200	0.19	650	T0247	IXYS
IXKH47N60C	600	47	0.07				6800	250	650	0.43	290	T0247	IXYS
IXFH50N60P3	600	50	0.145				6300	94	250	0.12	1040	T0247	IXYS
IXFQ50N60P3	600	50	0.145				6300	94	250	0.12	1040	T03P	IXYS
IXKH70N60C5	600	70	0.045				6800	150	600	0.2	625	T0247	IXYS
15N65	650	15	0.360									T0247	UTC
22N65	650	22	0.300									T0247	UTC
IXFH10N80P	800	10	1.1				2300	40	250	0.42	300	T0247	IXYS
IXFQ10N80P	800	10	1.1				2300	40	250	0.42	300	T03P	IXYS
IXFH12N80P	800	12	0.85				2800	51	250	0.35	360	T0247	IXYS
2SK4209	800	12	1.08				1500	75				T03P	SANYO/ONS
IXFQ12N80P	800	12	0.85				2800	51	250	0.35	360	T03P	IXYS
IXFH14N80P	800	14	0.72				3900	61	250	0.31	400	T0247	IXYS
IXFQ14N80P	800	14	0.72				3900	61	250	0.31	400	T03P	IXYS
IXFH16N80P	800	16	0.6				4000	70	250	0.27	460	T0247	IXYS
IXFH20N80P	800	20	0.52				4685	86	250	0.25	500	T0247	IXYS
IXFH24N80P	800	24	0.4				5800	100	250	0.19	650	T0247	IXYS
2SK1461	900	5	3.6				700				120	T03P	SANYO/ONS
2SK1462	900	8	1.6				1600				150	T03P	SANYO/ONS
2SK4210	900	10	1.3				1500	75				T03P	SANYOONS
IXFH12N90P	900	12	0.9				3080	56	300	0.33	380	T0247	IXYS
IXFH18N90P	900	18	0.6				5230	97	300	0.23	540	T0247	IXYS
IXFH24N90P	900	24	0.42				7200	130	300	0.19	660	T0247	IXYS
IXTH1N100	1000	1.5	11				480	23	710	2.3	60	T0247	IXYS
IXTH3N100P	1000	3	4.8				1100	39	820	1	125	T0247	IXYS
IXFH4N100Q	1000	4	3				1050	39	250	0.8	156	T0247	IXYS
IXFH5N100P	1000	5	2.8				1830	33.4	200	0.5	250	T0247	IXYS
IXFH6N100F	1000	6	1.9				1770	54	250	0.65	180	T0247	IXYS
IXFH10N100P	1000	10	1.4				3030	56	300	0.33	380	T0247	IXYS
IXFH12N100F	1000	12	1.05				2700	77	250	0.42	300	T0247	IXYS
IXFH12N100P	1000	12	1.05				4080	80	300	0.27	463	T0247	IXYS
IXFH14N100Q2	1000	14	0.95				2800	83	300	0.25	500	T0247	IXYS
IXFH15N100P	1000	15	0.76				5140	97	300	0.23	543	T0247	IXYS
IXFH20N100P	1000	20	0.57				7300	126	300	0.19	660	T0247	IXYS
IXTH2R4N120P	1200	2.4	7.5				1207	37	920	1	125	T0247	IXYS
IXTH3N120	1200	3	4.5				1100	42	700	0.62	200	T0247	IXYS
IXTH6N120	1200	6	2.4				1950	56	850	0.42	300	T0247	IXYS
IXTH12N120	1200	12	1.4				3400	95	850	0.27	460	T0247	IXYS
IXFH12N120P	1200	12	1.35				5400	103	300	0.23	543	T0247	IXYS
IXFH16N120P	1200	16	0.95				6900	120	300	0.19	660	T0247	IXYS
2SK3746	1500	2	13				380	37.5			110	T03P	SANYO/ONS
2SK1317	1500	2.5	12								80	T03P	RENESAS
2SK1835	1500	4	7								80	T03P	RENESAS
2SK2393	1500	8	2.8				4370		180		200	T03P	RENESAS
IXTH02N250	2500	0.2	450				120	6.6	2200	2.2	57	T0247	IXYS
IXTH1N250	2500	1.5	40				1660	41	2500	0.5	250	T0247	IXYS

Plus247

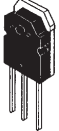
IXTX600N04T2	40	600	0.0015				40000	590	100	0.12	1250	Plus247	IXYS
IXTX550N055T2	55	550	0.0016				40000	595	100	0.12	1250	Plus247	IXYS
IXFX180N07	70	180	0.006				9400	420	250	0.22	568	Plus247	IXYS
IXFX180N10	100	180	0.008				10900	390	250	0.22	560	Plus247	IXYS
IXFX200N10P	100	200	0.0075				7600	235	150	0.18	830	Plus247	IXYS
IXFX250N10P	100	250	0.0065				16000	205	200	0.12	1250	Plus247	IXYS
IXFX180N15P	150	180	0.011				7000	240	200	0.18	830	Plus247	IXYS
IXFX220N15P	150	220	0.009				15400	162	200	0.12	1250	Plus247	IXYS
IXFX240N15T2	150	240	0.0052				32000	460	*	0.12	1250	Plus247	IXYS
IXFX360N15T2	150	360	0.004				47500	715	*	0.09	1670	Plus247	IXYS
IXFX210N17T	170	210	0.0075				18800	285		0.13	1150	Plus247	IXYS
IXFX220N17T2	170	220	0.0063				31000	500	*	0.12	1250	Plus247	IXYS
IXFX260N17T	170	260	0.0065				24000	400		0.09	1670	Plus247	IXYS
IXFX320N17T2	170	320	0.0052				45000	640	*	0.09	1250	Plus247	IXYS
IXFX170N20P	200	170	0.014				11400	185	200	0.12	1250	Plus247	IXYS
IXFX170N20T	200	170	0.011				19600	265		0.13	1150	Plus247	IXYS
IXFX230N20T	200	230	0.0075				28000	378		0.09	1670	Plus247	IXYS
IXFX120N25P	250	120	0.024				8000	185	200	0.18	700	Plus247	IXYS
IXFX140N25T	250	140	0.017				19000	255		0.13	960	Plus247	IXYS
IXFX180N25T	250	180	0.0129				28000	345		0.09	1390	Plus247	IXYS
IXFX120N30T	300	120	0.024				20000	265		0.13	960	Plus247	IXYS
IXFX140N30P	300	140	0.024				14800	185	200	0.12	1040	Plus247	IXYS
IXFX160N30T	300	160	0.019				28000	335		0.09	1390	Plus247	IXYS
IXFX44N50F	500	44	0.12				5500	162	250	0.26	500	Plus247	IXYS
IXFX55N50F	500	55	0.085				6700	195	250	0.21	560	Plus247	IXYS
IXFX64N50P	500	64	0.085				8700	150	200	0.15	830	Plus247	IXYS
IXFX66N50Q2	500	66	0.08				9125	200	250	0.17	735	Plus247	IXYS
IXFX74N50P2	500	74	0.077				9900	165	250	0.089	1400	Plus247	IXYS
IXFX78N50P3	500	78	0.068				9900	147	250	0.11	1130	Plus247	IXYS

NP = Automotive AEC-Q101

T0247



T03P



MOSFET

MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4,5V								
[V]	[A]	max	max	max	max	[pF]	[nC]	[ns]	[°C/W]	[W]			
		[Ω]	[Ω]	[Ω]	[Ω]								
IXFX80N50P	500	80	0.065				12700	197	200	0.12	1040	Plus247	IXYS
IXFX94N50P2	500	94	0.055				14200	228	250	0.096	1300	Plus247	IXYS
IXFX98N50P3	500	98	0.05				13100	197	250	0.096	1300	Plus247	IXYS
IXFX60N55Q2	550	60	0.088				6900	200	250	0.17	735	Plus247	IXYS
IXFX44N60	600	44	0.13				8900	330	250	0.22	568	Plus247	IXYS
IXFX48N60P	600	48	0.135				8860	150	200	0.15	830	Plus247	IXYS
IXFX52N60Q2	600	52	0.115				6800	198	250	0.17	735	Plus247	IXYS
IXFX64N60P	600	64	0.096				12000	200	200	0.12	1040	Plus247	IXYS
IXFX64N60P3	600	64	0.095				9900	145	250	0.11	1130	Plus247	IXYS
IXFX80N60P3	600	80	0.07				13100	190	250	0.096	1300	Plus247	IXYS
IXFX32N80P	800	32	0.27				8800	150	250	0.15	830	Plus247	IXYS
IXFX38N80Q2	800	38	0.22				9500	190	250	0.17	735	Plus247	IXYS
IXFX40N90P	900	40	0.21				14000	230	300	0.13	960	Plus247	IXYS
IXFX21N100F	1000	21	0.5				5500	160	250	0.26	500	Plus247	IXYS
IXTX24N100	1000	24	0.4				8700	267	250	0.22	568	Plus247	IXYS
IXFX24N100F	1000	24	0.39				6600	195	250	0.21	560	Plus247	IXYS
IXFX24N100	1000	24	0.39				8700	267	250	0.22	560	Plus247	IXYS
IXFX26N100P	1000	26	0.39				11900	197	300	0.16	780	Plus247	IXYS
IXFX30N100Q2	1000	30	0.4				9400	186	300	0.17	735	Plus247	IXYS
IXFX32N100P	1000	32	0.32				14200	225	300	0.13	960	Plus247	IXYS
IXFX20N120P	1200	20	0.57				11100	193	300	0.16	780	Plus247	IXYS
IXFX26N120P	1200	26	0.46				14000	225	300	0.13	960	Plus247	IXYS

T0264

IXTK600N04T2	40	600	0.0015				40000	590	100	0.12	1250	T0264	IXYS
IXTK550N055T2	55	550	0.016				40000	595	100	0.12	1250	T0264	IXYS
IXFK180N07	70	180	0.006				9400	420	250	0.22	568	T0264	IXYS
IXFK520N075T2	75	520	0.0022				41000	545	*	0.12	1250	T0264	IXYS
IXTK170N10P	100	170	0.009				6000	198	120	0.21	714	T0264	IXYS
IXFK170N10P	100	170	0.009				6000	198	150	0.21	714	T0264	IXYS
IXFK180N10	100	180	0.008				10900	390	250	0.22	560	T0264	IXYS
IXTK200N10P	100	200	0.0075				7600	240	100	0.18	800	T0264	IXYS
IXFK200N10P	100	200	0.0075				7600	235	150	0.18	830	T0264	IXYS
IXFK250N10P	100	250	0.0065				16000	205	200	0.12	1250	T0264	IXYS
IXTK250N10	100	250	0.005				7800	390	150	0.17	730	T0264	IXYS
IXTK150N15P	150	150	0.013				5800	190	150	0.21	714	T0264	IXYS
IXFK150N15P	150	150	0.013				5800	190	200	0.21	714	T0264	IXYS
IXFK180N15P	150	180	0.011				7000	240	200	0.18	830	T0264	IXYS
IXTK180N15P	150	180	0.01				7000	240	150	0.18	800	T0264	IXYS
IXFK220N15P	150	220	0.009				15400	162	200	0.12	1250	T0264	IXYS
IXFK240N15T2	150	240	0.0052				32000	460		0.12	1250	T0264	IXYS
IXFK360N15T2	150	360	0.004				47500	715		0.09	1670	T0264	IXYS
IXFK210N17T	170	210	0.0075				18800	285		0.13	1150	T0264	IXYS
IXFK220N17T2	170	220	0.0063				31000	500		0.12	1250	T0264	IXYS
IXFK260N17T	170	260	0.0065				24000	400		0.09	1670	T0264	IXYS
IXFK320N17T2	170	320	0.0052				45000	640		0.09	1670	T0264	IXYS
IXTK120N20P	200	120	0.022				6000	152	180	0.21	714	T0264	IXYS
IXFK120N20P	200	120	0.022				6000	152	200	0.21	714	T0264	IXYS
IXTK140N20P	200	140	0.018				7500	240	180	0.18	800	T0264	IXYS
IXFK140N20P	200	140	0.018				7500	240	200	0.18	830	T0264	IXYS
IXFK170N20P	200	170	0.014				11400	185	200	0.12	1250	T0264	IXYS
IXFK170N20T	200	170	0.011				19600	265		0.13	1150	T0264	IXYS
IXFK230N20T	200	230	0.0075				28000	378		0.09	1670	T0264	IXYS
IXTK82N25P	250	82	0.035				4800	142	200	0.25	500	T0264	IXYS
IXTK100N25P	250	100	0.027				6300	185	200	0.21	600	T0264	IXYS
IXTK120N25P	250	120	0.024				8000	185	200	0.18	700	T0264	IXYS
IXFK120N25P	250	120	0.024				8000	185	200	0.18	700	T0264	IXYS
IXFK140N25T	250	140	0.017				19000	255		0.13	960	T0264	IXYS
IXFK180N25T	250	180	0.0129				28000	345		0.09	1390	T0264	IXYS
IXTK88N30P	300	88	0.04				6300	180	250	0.21	600	T0264	IXYS
IXFK88N30P	300	88	0.04				6300	180	200	0.21	600	T0264	IXYS
IXTK102N30P	300	102	0.033				7500	224	250	0.18	700	T0264	IXYS
IXFK102N30P	300	102	0.033				7500	224	200	0.18	700	T0264	IXYS
IXFK120N30T	300	120	0.024				20000	265		0.13	960	T0264	IXYS
IXTK140N30P	300	140	0.24				14800	185	250	0.12	1040	T0264	IXYS
IXFK140N30P	300	140	0.024				14800	185	200	0.12	1040	T0264	IXYS
IXFK160N30T	300	160	0.019				28000	335		0.09	1390	T0264	IXYS
IXFK40N50Q2	500	40	0.16				4850	110	250	0.22	560	T0264	IXYS
IXFK44N50P	500	44	0.14				5440	98	200	0.19	650	T0264	IXYS
IXFK44N50F	500	44	0.12				5500	162	250	0.26	500	T0264	IXYS
IXFK55N50F	500	55	0.085				6700	195	250	0.21	560	T0264	IXYS
IXFK64N50P	500	64	0.085				8700	150	200	0.15	830	T0264	IXYS
IXFK66N50Q2	500	66	0.08				9125	200	250	0.17	735	T0264	IXYS
IXFK74N50P2	500	74	0.077				9900	165	250	0.089	1400	T0264	IXYS
IXFK78N50P3	500	78	0.068				9900	147	250	0.11	1130	T0264	IXYS
IXFK80N50P	500	80	0.065				12700	197	200	0.12	1040	T0264	IXYS
IXFK94N50P2	500	94	0.055				14200	228	250	0.096	1300	T0264	IXYS
IXFK98N50P3	500	98	0.05				13100	197	250	0.096	1300	T0264	IXYS
IXFK60N55Q2	550	60	0.088				6900	200	250	0.17	735	T0264	IXYS
IXFK36N60P	600	36	0.19				5800	102	200	0.19	650	T0264	IXYS
IXFK44N60	600	44	0.13				8900	330	250	0.22	568	T0264	IXYS
IXFK48N60P	600	48	0.135				8860	150	200	0.15	830	T0264	IXYS
IXFK52N60Q2	600	52	0.115				6800	198	250	0.17	735	T0264	IXYS
IXFK64N60P3	600	64	0.095				9900	145	250	0.11	1130	T0264	IXYS
IXFK64N60P	600	64	0.096				12000	200	200	0.12	1040	T0264	IXYS
IXFK80N60P3	600	80	0.07				13100	190	250	0.096	1300	T0264	IXYS
IXKK85N60C	600	85	0.036				13600	500	650	0.18	700	T0264	IXYS
IXFK24N80P	800	24	0.4				5800	100	250	0.19	650	T0264	IXYS
IXFK32N80P	800	32	0.27				8800	150	250	0.15	830	T0264	IXYS
IXFK38N80Q2	800	38	0.22				9500	190	250	0.17	735	T0264	IXYS
IXFK40N90P	900	40	0.21				14000	230	300	0.13	960	T0264	IXYS
IXFK21N100F	1000	21	0.5				5500	160	250	0.26	500	T0264	IXYS
IXFK24N100F	1000	24	0.39				6600	195	250	0.21	560	T0264	IXYS
IXFK24N100	1000	24	0.39				8700	267	250	0.22	560	T0264	IXYS

NP = Automotive AEC-Q101

PLUS247



MOSFET

T0264



MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
[V]	[A]	max	max	max	max	[pF]	[nC]	[ns]	[°C/W]	[W]			
IXFK26N100P	1000	26	0.39				11900	197	300	0.16	780	TO264	IXYS
IXFK30N100Q2	1000	30	0.4				9400	186	300	0.17	735	TO264	IXYS
IXFK32N100P	1000	32	0.32				14200	225	300	0.13	960	TO264	IXYS
IXFK30N110P	1100	30	0.36				13600	235	300	0.13	960	TO264	IXYS
IXFK20N120P	1200	20	0.57				11100	193	300	0.16	780	TO264	IXYS
IXFK26N120P	1200	26	0.46				14000	225	300	0.13	960	TO264	IXYS

Plus264

IXFB300N10P	100	300	0.0055				23000	279	200	0.1	1500	Plus264	IXYS
IXFB210N20P	200	210	0.0105				18600	255	200	0.1	1250	Plus264	IXYS
IXFB170N30P	300	170	0.018				20000	258	200	0.1	1250	Plus264	IXYS
IXFB100N50P	500	100	0.049				20000	240	200	0.1	1250	Plus264	IXYS
IXFB120N50P2	500	120	0.043				19000	300	300	0.066	1890	Plus264	IXYS
IXFB132N50P3	500	132	0.039				18600	250	250	0.066	1890	Plus264	IXYS
IXFB72N55Q2	550	72	0.072				7200	270	250	0.14	890	Plus264	IXYS
IXFB70N60Q2	600	70	0.08				12000	265	250	0.14	890	Plus264	IXYS
IXFB82N60P	600	82	0.075				23000	240	200	0.1	1250	Plus264	IXYS
IXFB110N60P3	600	110	0.056				18000	245	250	0.066	1890	Plus264	IXYS
IXFB50N80Q2	800	50	0.15				7200	260	300	0.14	890	Plus264	IXYS
IXFB60N80P	800	60	0.14				18000	250	250	0.1	1250	Plus264	IXYS
IXFB52N90P	900	52	0.16				19000	308	300	0.1	1250	Plus264	IXYS
IXFB38N100Q2	1000	38	0.25				13500	250	300	0.14	890	Plus264	IXYS
IXFB44N100P	1000	44	0.22				19000	305	300	0.1	1250	Plus264	IXYS
IXFB40N110P	1100	40	0.26				19000	310	300	0.1	1250	Plus264	IXYS

SOT227B

IXTN600N04T2	40	600	0.0015				40000	590	100	0.12	940	SOT227B	IXYS
IXTN550N05T2	55	550	0.0013				40000	595	100	0.16	940	SOT227B	IXYS
IXFN180N07	70	180	0.007				9000	480	150	0.24	521	SOT227B	IXYS
IXFN340N07	70	340	0.004				12200	490	200	0.18	694	SOT227B	IXYS
IXFN520N07T2	75	520	0.0019				41000	545	*	0.16	940	SOT227B	IXYS
IXFN280N085	85	280	0.0044				19000	580	200	0.18	700	SOT227B	IXYS
IXFN180N10	100	180	0.008				9100	360	250	0.21	595	SOT227B	IXYS
IXFN200N10P	100	200	0.0075				7600	235	150	0.22	680	SOT227B	IXYS
IXTN200N10T	100	200	0.0055				9400	152	76	0.3	550	SOT227B	IXYS
IXFN230N10	100	230	0.006				19000	570	250	0.18	700	SOT227B	IXYS
IXFN300N10P	100	295	0.0055				23000	279	200	0.14	1070	SOT227B	IXYS
IXFN320N10T	100	320	0.0032				22600	375	100	0.22	680	SOT227B	IXYS
IXFN360N10T	100	360	0.0026				36000	505	82	0.18	830	SOT227B	IXYS
IXFN180N15P	150	150	0.011				7000	240	200	0.22	680	SOT227B	IXYS
IXFN240N15T2	150	240	0.0052				32000	460	*	0.18	830	SOT227B	IXYS
IXFN360N15T2	150	360	0.004				47500	715	*	0.14	1070	SOT227B	IXYS
IXFN260N17T	170	245	0.0065				24000	400		0.138	1090	SOT227B	IXYS
IXFN320N17T2	170	260	0.0052				45000	640	*	0.14	1070	SOT227B	IXYS
IXFN140N20P	200	115	0.018				7500	240	200	0.22	680	SOT227B	IXYS
IXFN210N20P	200	188	0.0105				18600	255	200	0.14	1070	SOT227B	IXYS
IXFN230N20T	200	220	0.0075				28000	378		0.138	1090	SOT227B	IXYS
IXFN180N25T	250	164	0.0129				28000	345		0.138	900	SOT227B	IXYS
IXFN102N30P	300	88	0.033				7500	224	200	0.21	600	SOT227B	IXYS
IXFN140N30P	300	110	0.024				14800	185	200	0.18	700	SOT227B	IXYS
IXFN160N30T	300	130	0.019				28000	335		0.138	900	SOT227B	IXYS
IXFN170N30P	300	138	0.0018				20000	258	200	0.14	890	SOT227B	IXYS
IXFN64N50P	500	61	0.085				8700	150	200	0.18	700	SOT227B	IXYS
IXFN66N50Q2	500	66	0.08				9125	200	250	0.17	735	SOT227B	IXYS
IXFN80N50P	500	66	0.065				12700	195	200	0.18	700	SOT227B	IXYS
IXFN80N50Q2	500	80	0.06				12800	260	250	0.14	890	SOT227B	IXYS
IXFN100N50P	500	90	0.049				20000	240	200	0.12	1040	SOT227B	IXYS
IXFN72N55Q2	550	72	0.072				7200	270	250	0.14	890	SOT227B	IXYS
IXFN48N60P	600	40	0.14				8860	150	200	0.2	625	SOT227B	IXYS
IXKN40N60C	600	40	0.07				6800	250	650	0.43	290	SOT227B	IXYS
IXFN44N60	600	44	0.13				8900	330	250	0.22	568	SOT227B	IXYS
IXFN64N60P	600	50	0.096				12000	200	200	0.18	700	SOT227B	IXYS
IXFN70N60Q2	600	70	0.08				12000	265	250	0.14	890	SOT227B	IXYS
IXKN75N60C	600	75	0.036				13600	500	650	0.22	560	SOT227B	IXYS
IXFN82N60P	600	82	0.075				23000	240	200	0.12	1040	SOT227B	IXYS
IXFN32N80P	800	29	0.27				8820	135	250	0.2	625	SOT227B	IXYS
IXFN44N80P	800	36	0.19				12000	200	250	0.12	1200	SOT227B	IXYS
IXFN38N80Q2	800	38	0.22				9500	190	250	0.17	735	SOT227B	IXYS
IXKN45N80C	800	44	0.074				9200	335	550	0.33	380	SOT227B	IXYS
IXFN50N80Q2	800	50	0.15				13500	260	300	0.14	890	SOT227B	IXYS
IXFN60N80P	800	53	0.14				18000	250	250	0.12	1040	SOT227B	IXYS
IXFN40N90P	900	33	0.21				14000	230	300	0.18	695	SOT227B	IXYS
IXFN52N90P	900	43	0.16				19000	308	300	0.14	890	SOT227B	IXYS
IXFN56N90P	900	56	0.135				23000	375	300	0.125	1000	SOT227B	IXYS
IXFN26N100P	1000	23	0.39				11900	197	300	0.21	595	SOT227B	IXYS
IXFN24N100F	1000	24	0.39				6600	195	250	0.21	600	SOT227B	IXYS
IXFN24N100	1000	24	0.39				8700	267	250	0.22	568	SOT227B	IXYS
IXFN32N100P	1000	27	0.32				14200	225	300	0.18	690	SOT227B	IXYS
IXFN34N100	1000	34	0.28				9200	380	180	0.18	694	SOT227B	IXYS
IXFN36N100	1000	36	0.24				9200	380	180	0.18	694	SOT227B	IXYS
IXFN44N100P	1000	37	0.22				19000	305	300	0.14	890	SOT227B	IXYS
IXFN38N100Q2	1000	38	0.25				13500	250	300	0.14	890	SOT227B	IXYS
IXFN38N100P	1000	38	0.21				24000	350	300	0.125	1000	SOT227B	IXYS
IXFN30N110P	1100	25	0.36				13600	235	300	0.18	695	SOT227B	IXYS
IXFN40N110P	1100	34	0.26				19000	310	300	0.14	890	SOT227B	IXYS
IXFN36N110P	1100	36	0.24				23000	350	300	0.125	1000	SOT227B	IXYS
IXFN20N120P	1200	20	0.57				11100	193	300	0.21	595	SOT227B	IXYS
IXFN26N120P	1200	23	0.46				14000	225	300	0.18	695	SOT227B	IXYS
IXFN30N120P	1200	30	0.35				19000	310	300	0.14	890	SOT227B	IXYS
IXFN32N120P	1200	32	0.31				21000	360	300	0.125	1000	SOT227B	IXYS

NP = Automotive AEC-Q101



MOSFET



MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
[V]	[A]	max	max	max	max	[pF]	[nC]	[ns]	[°C/W]	[W]			
		[Ω]	[Ω]	[Ω]	[Ω]								
TO220iso													
2SK4043LS	30	20	0.024			0.021	3000	37			20	TO220 iso	SANYO/ONS
2SK2977LS	30	30	0.022			0.035	1600	40			30	TO220 iso	SANYO/ONS
FS50KMJ-03F	30	50	0.0122			0.019	2100				-	TO220 iso	RENESAS
H7N0308CF	30	60	0.0048			0.0085	3350				30	TO220 iso	RENESAS
FS70KMJ-03F	30	70	0.008			0.012	3250				-	TO220 iso	RENESAS
NP80N03MLG-S18	30	80	0.0070	0.0090	0.0110						120	TO220 iso	RENESAS
FS100KMJ-03F	30	100	0.004			0.0057	7600				-	TO220 iso	RENESAS
2SK3755	40	45	0.0120			0.0180					24	TO220 iso	RENESAS
NP60N04MUG-S18	40	60	0.0067								88	TO220 iso	RENESAS
NP70N04MUG-S18	40	70	0.0050								115	TO220 iso	RENESAS
NP80N04MDG-S18	40	80	0.0048		0.0090						115	TO220 iso	RENESAS
NP80N04MLG-S18	40	80	0.0048		0.0090						115	TO220 iso	RENESAS
NP80N04MHE-S18	40	80	0.0080								120	TO220 iso	RENESAS
NP82N04MDG-S18	40	82	0.0042		0.0085						143	TO220 iso	RENESAS
NP82N04MUG-S18	40	82	0.0042								143	TO220 iso	RENESAS
NP82N04MLG-S18	40	82	0.0042		0.0085						143	TO220 iso	RENESAS
NP84N04MHE-S18	40	84	0.0052								200	TO220 iso	RENESAS
NP86N04MHE-S18	40	86	0.0044								230	TO220 iso	RENESAS
NP88N04MHE-S18	40	88	0.0043								288	TO220 iso	RENESAS
NP90N04MUG-S18	40	90	0.0030								217	TO220 iso	RENESAS
NP90N04MUH-S18	40	90	0.0050								269	TO220 iso	RENESAS
NP90N04MDH-S18	40	90	0.0047		0.0076						269	TO220 iso	RENESAS
NP100N04MUH-S18	40	100	0.0044								337	TO220 iso	RENESAS
NP100N04MDH-S18	40	100	0.0042		0.0065						337	TO220 iso	RENESAS
NP40N055MHE-S18	55	40	0.0230								66	TO220 iso	RENESAS
NP40N055MLE-S18	55	40	0.0230	0.0280	0.0320						66	TO220 iso	RENESAS
NP48N055MHE-S18	55	48	0.0170								85	TO220 iso	RENESAS
NP48N055MLE-S18	55	48	0.0170	0.0210	0.0240						85	TO220 iso	RENESAS
NP80N055MDG-S18	55	80	0.0073		0.0112						115	TO220 iso	RENESAS
NP80N055MHE-S18	55	80	0.0110								120	TO220 iso	RENESAS
NP80N055MLE-S18	55	80	0.0110	0.0130	0.0150						120	TO220 iso	RENESAS
NP82N055MUG-S18	55	82	0.0086								143	TO220 iso	RENESAS
NP82N055MHE-S18	55	82	0.0086								163	TO220 iso	RENESAS
NP82N055MLE-S18	55	82	0.0084	0.0110	0.0120						163	TO220 iso	RENESAS
NP84N055MHE-S18	55	84	0.0073								200	TO220 iso	RENESAS
NP84N055MLE-S18	55	84	0.0070	0.0078	0.0090						200	TO220 iso	RENESAS
NP88N055MHE-S18	55	88	0.0053								288	TO220 iso	RENESAS
NP88N055MLE-S18	55	88	0.0052	0.0063	0.0068						288	TO220 iso	RENESAS
NP90N055MUH-S18	55	90	0.0062								269	TO220 iso	RENESAS
NP90N055MDH-S18	55	90	0.0059		0.0090						269	TO220 iso	RENESAS
NP100N055MUH-S18	55	100	0.0053								337	TO220 iso	RENESAS
NP100N055MDH-S18	55	100	0.0051		0.0076						337	TO220 iso	RENESAS
30N06L-TF3	60	30	0.4					40				TO220 iso	UTC
2SK2410	60	30	0.04			0.06						TO220 iso	RENESAS
2SK3414LS	60	30	0.026			0.036	1700	52			25	TO220 iso	SANYO/ONS
2SK3703	60	30	0.026			0.04	1780	40			25	TO220 iso	SANYO/ONS
FS30KMJ-06F	60	30	0.022			0.028	2600				-	TO220 iso	RENESAS
2SK3415LS	60	40	0.017			0.024	3000	89			35	TO220 iso	SANYO/ONS
H7N0608FM	60	40	0.0085		0.013		6200				30	TO220 iso	RENESAS
FS50KMJ-06F	60	50	0.014			0.018	3850				-	TO220 iso	RENESAS
2SK3714	60	50	0.0130			0.0220					35	TO220 iso	RENESAS
60N06L-TF3	60	60	0.018					18				TO220 iso	UTC
FS70KMJ-06F	60	70	0.007			0.0083	8500				-	TO220 iso	RENESAS
2SK4144	60	70	0.0058		0.0073						35	TO220 iso	RENESAS
2SK3715	60	75	0.0060			0.0095					40	TO220 iso	RENESAS
NP80N06MLG-S18	60	80	0.0100		0.0133						115	TO220 iso	RENESAS
NP82N06MLG-S18	60	82	0.0074		0.0097						143	TO220 iso	RENESAS
NP84N075MUE-S18	75	84	0.0125								200	TO220 iso	RENESAS
NP88N075MUE-S18	75	88	0.0085								288	TO220 iso	RENESAS
IXFP230N075T2	75	230	0.0042				10500	178	59	0.31	480	TO220 iso	IXYS
H7N1005FM	100	12	0.11		0.155		830				20	TO220 iso	RENESAS
2SK3793	100	12	0.1250		0.1480						20	TO220 iso	RENESAS
2SK3707	100	20	0.06			0.08	2150	44			25	TO220 iso	SANYO/ONS
H7N1004FM	100	25	0.035		0.045		2800				25	TO220 iso	RENESAS
H7N1004FN	100	25	0.035			0.045	2800				-	TO220 iso	RENESAS
2SK3708	100	30	0.033			0.042	4200	73			30	TO220 iso	SANYO/ONS
IXTP60N10TM	100	33	0.019				2650	49	59	2.5	60	TO220 iso	IXYS
2SK3709	100	37	0.025			0.032	6250	117			35	TO220 iso	SANYO/ONS
RJK1008DPP-00	100	80	0.011			-	5200				45	TO220 iso	RENESAS
IXFP130N10T2	100	130	0.0091				6600	130	*	0.42	360	TO220 iso	IXYS
IXFP180N10T2	100	180	0.006				10500	185	66	0.31	480	TO220 iso	IXYS
RJK1560DPP-M0	150	20	-			0.06	6720				-	TO220 iso	RENESAS
IXFP76N15T2	150	76	0.02				5800	97	69	0.43	350	TO220 iso	IXYS
IXFP110N15T2	150	110	0.013				8600	150	85	0.31	480	TO220 iso	IXYS
2SK3108	200	8	0.4000								25	TO220 iso	RENESAS
UF630L-TF3	200	9	0.4					400				TO220 iso	UTC
2SK3110	200	14	0.1800								35	TO220 iso	RENESAS
UF640L-TF3	200	18	0.18					180				TO220 iso	UTC
IXTP50N20PM	200	20	0.06				2720	70	150	1.66	90	TO220 iso	IXYS
H5N2007FN	200	25	0.047			-	2200				30	TO220 iso	RENESAS
RJK2017DPP	200	45	0.047			-	4800				-	TO220 iso	RENESAS
H5N2521FN	250	3	2.2			-	160				20	TO220 iso	RENESAS
2SK3454	250	7	0.6300								30	TO220 iso	RENESAS
UF634L-TF3	250	8.1	0.45					450				TO220 iso	UTC
H5N2522FN	250	12	0.17			-	1300				35	TO220 iso	RENESAS
H5N2502CF-E	250	18	0.105			-	2300				-	TO220 iso	RENESAS
H5N2512FN	250	18	0.105			-	2200				-	TO220 iso	RENESAS
H5N2517FN	250	20	0.072			-	2200				30	TO220 iso	RENESAS
IXTP60N28TM-A	280	18	0.058				5070	84	170	2.5	50	TO220 iso	IXYS
H5N2901FN	290	18	0.09			-	2200				30	TO220 iso	RENESAS
H5N3007FN	300	15	0.16			-	2180				-	TO220 iso	RENESAS
RJK4002DPP-M0	400	3	2.9			-	165				-	TO220 iso	RENESAS

NP = Automotive AEC-Q101

TO220 iso



MOSFET

MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics											Package	Manufacturer
	Ta=25°C												
	VDS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc	PD		
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
[V]	[A]	max	max	max	max	[pF]	[nC]	[ns]	[°C/W]	[W]			
		[Ω]	[Ω]	[Ω]	[Ω]								
6N40L-TF3	400	6	1					1000				TO220 iso	UTC
UF730L-TF3	400	6.5	1					1000				TO220 iso	UTC
RJK4007DPP	400	7.6	0.55					850			-	TO220 iso	RENESAS
RJK4007DPP-MO	400	7.6	0.55					850			-	TO220 iso	RENESAS
RJK4006DPP	400	8	0.8					650			-	TO220 iso	RENESAS
RJK4006DPP-MO	400	8	0.8					620			-	TO220 iso	RENESAS
UF740L-TF3	400	10	0.55						550			TO220 iso	UTC
11N40L-TF3	400	11.4	0.48						480			TO220 iso	UTC
RJK4512DPP	450	14	0.51					1100			-	TO220 iso	RENESAS
2SK4062LS	450	18	0.32					2150	39		45	TO220 iso	SANYO/ONS
IXFP3N50PM	500	2.7	2					409	9.3	200	3.5	TO220 iso	IXYS
H5N5006FM	500	3	3					365			25	TO220 iso	RENESAS
IXFP5N50PM	500	3.2	1.4					620	12.6	200	3.3	TO220 iso	IXYS
IXTP8N50PM	500	4	0.88					1050	20	400	3	TO220 iso	IXYS
IXFP8N50PM	500	4.4	0.8					1050	20	200	3	TO220 iso	IXYS
UF830L-TF3	500	4.5	1.5						1500			TO220 iso	UTC
H5N5001FM	500	5	1.5					580			30	TO220 iso	RENESAS
RJK5030DPP-MO	500	5	1.6					550			-	TO220 iso	RENESAS
IXFP12N50PM	500	6	0.5					1830	29	300	2.5	TO220 iso	IXYS
IXTP12N50PM	500	6	0.5					1830	29	400	2.5	TO220 iso	IXYS
RJK5026DPP	500	6	1.7					440			-	TO220 iso	RENESAS
RJK5026DPP-MO	500	6	1.7					440			-	TO220 iso	RENESAS
RJK5033DPP-MO	500	6	1.3					600			-	TO220 iso	RENESAS
UF840L-TF3	500	8	0.85						850			TO220 iso	UTC
UK3568L-TF3	500	12	0.52						520			TO220 iso	UTC
RJK5012DPP	500	12	0.62					1100			30	TO220 iso	RENESAS
RJL5012DPP	500	12	0.7					1050			-	TO220 iso	RENESAS
2SK4084LS	500	14	0.52					1000	38.4		37	TO220 iso	SANYO/ONS
RJK5013DPP	500	14	0.465					1450			-	TO220 iso	RENESAS
RJL5013DPP	500	14	0.51					1400			-	TO220 iso	RENESAS
2SK4085LS	500	16	0.43					1200	46.6		40	TO220 iso	SANYO/ONS
2SK4063LS	500	16	0.39					2150	40		45	TO220 iso	SANYO/ONS
RJK5014DPP	500	19	0.39					1800			35	TO220 iso	RENESAS
RJL5014DPP	500	19	0.4					1700			-	TO220 iso	RENESAS
RJK5009DPP	500	20	0.325					2100			40	TO220 iso	RENESAS
1N60L-A-TF3	600	1.2	11.5						11500			TO220 iso	UTC
2N60L-A-TF3	600	2	5						5000			TO220 iso	UTC
RJL6032DPP-MO	600	2	3.7					265			-	TO220 iso	RENESAS
3N60L-A-TF3	600	3	3.6						3600			TO220 iso	UTC
IXTP7N60PM	600	4	1.1					1180	20	500	3	TO220 iso	IXYS
4N60L-A-TF3	600	4	2.5						2500			TO220 iso	UTC
5N60L-A-TF3	600	4.5	2.5						2500			TO220 iso	UTC
IXTP10N60PM	600	5	0.74					1610	32	500	2.5	TO220 iso	IXYS
RJK6026DPP	600	5	2.4					440			-	TO220 iso	RENESAS
RJK6066DPP-MO	600	5	3					425			-	TO220 iso	RENESAS
IXKP10N60C5M	600	5.4	0.385					790	17	260	3.95	TO220 iso	IXYS
6N60L-A-TF3	600	6.2	1.5						1500			TO220 iso	UTC
IXKP13N60C5M	600	6.5	0.3					1100	22	300	3.85	TO220 iso	IXYS
IXTP14N60PM	600	7	0.55					2500	36	500	1.66	TO220 iso	IXYS
7N60AL-A-TF3	600	7	1.2						1200			TO220 iso	UTC
7N60L-A-TF3	600	7.4	1						1000			TO220 iso	UTC
8N60L-A-TF3	600	7.5	1.2						1200			TO220 iso	UTC
IXKP20N60C5M	600	7.6	0.2					1520	32	340	3.75	TO220 iso	IXYS
IXKP24N60C5M	600	8.5	0.165					2000	40	390	3.65	TO220 iso	IXYS
IXTP18N60PM	600	9	0.42					2500	49	500	1.39	TO220 iso	IXYS
2SK4087LS	600	9.2	0.61					1200	46		40	TO220 iso	SANYO/ONS
10N60L-A-TF3	600	9.5	0.73						730			TO220 iso	UTC
UK2996L-TF3	600	10	1						1000			TO220 iso	UTC
RJK6012DPP	600	10	0.92					1100			30	TO220 iso	RENESAS
RJK6052DPP-MO	600	10	1.07					1070			-	TO220 iso	RENESAS
RJL6012DPP	600	10	1.1					1050			-	TO220 iso	RENESAS
RJK6013DPP	600	11	0.7					1450			-	TO220 iso	RENESAS
RJK6053DPP-MO	600	11	0.82					1400			-	TO220 iso	RENESAS
RJL6013DPP	600	11	0.81					1400			-	TO220 iso	RENESAS
2SK4086LS	600	11.5	0.75					1000	38.2		37	TO220 iso	SANYO/ONS
12N60L-A-TF3	600	12	0.7						700			TO220 iso	UTC
2SK4064LS	600	14	0.58					2000	37		45	TO220 iso	SANYO/ONS
RJL6014DPP	600	15	0.635					1700			-	TO220 iso	RENESAS
RJK6014DPP	600	16	0.575					1800			35	TO220 iso	RENESAS
RJK6054DPP-MO	600	16	0.72					1730			-	TO220 iso	RENESAS
RJK6009DPP	600	18	0.48					2100			-	TO220 iso	RENESAS
1N60L-B-TF3	650	1.2	11.5						11500			TO220 iso	UTC
2N60L-B-TF3	650	2	5						5000			TO220 iso	UTC
3N60L-B-TF3	650	3	3.6						3600			TO220 iso	UTC
4N60L-B-TF3	650	4	2.5						2500			TO220 iso	UTC
5N60L-B-TF3	650	4.5	2.5						2500			TO220 iso	UTC
6N60L-B-TF3	650	6.2	1.5						1500			TO220 iso	UTC
7N65L-TF3	650	7	1.35						1350			TO220 iso	UTC
7N60AL-B-TF3	650	7	1.2						1200			TO220 iso	UTC
7N60L-B-TF3	650	7.4	1						1000			TO220 iso	UTC
2SK4088LS	650	7.5	0.85					1000	37.6		40	TO220 iso	SANYO/ONS
8N60L-B-TF3	650	7.5	1.2						1200			TO220 iso	UTC
10N60L-B-TF3	650	9.5	0.73						730			TO220 iso	UTC
12N60L-B-TF3	650	12	0.7						700			TO220 iso	UTC
2SK4089LS	650	12	0.72					1200	45.4		40	TO220 iso	SANYO/ONS
7N70L-TF3	700	7	1.5						1500			TO220 iso	UTC
12N07L-TF3	700	12	0.7						700			TO220 iso	UTC
3N80L-TF3	800	2.5	4.5						4500			TO220 iso	UTC
IXFP7N80PM	800	3.5	1.44					1890	32	250	2.5	TO220 iso	IXYS
BFL4038	800	6.5	2.5					710	36			TO220 iso	SANYO/ONS
BFL4404	800	6.5	2.5					710	36			TO220 iso	SANYO/ONS
3N90L-TF3	900	3	4.8						4800			TO220 iso	UTC
BFL4026	900	5	3.6					650	33			TO220 iso	SANYO/ONS

NP = Automotive AEC-Q101



MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer		
	Ta=25°C													
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD	
			VGS = 10V		VGS = 5V									VGS = 4.5V
max			max	max	max	[pF]					[nC]	[ns]		[°C/W]
	[V]	[A]	[Ω]	[Ω]	[Ω]	[Ω]								
BFL4001	900	6.5	2.7				850	44				TO220 iso	SANYO/ONS	
IXFP05N100M	1000	0.7	17				260	7.8	300	5	25	TO220 iso	IXYS	
IXTP05N100M	1000	0.7	17				260	7.8	710	5	25	TO220 iso	IXYS	
2SK1412LS	1500	0.1	20				40	-			20	TO220 iso	SANYO/ONS	
BFL4039	1500	0.1	140									TO220 iso	SANYO/ONS	
2SK3745LS	1500	2	13				380	37.5			35	TO220 iso	SANYO/ONS	

Isoplus220

IXTC110N055T	55	78	0.0090				3080	67	70	1.50	100	Isoplus220	IXYS
IXTC220N055T	55	130	0.0044				7200	158	30	1.00	150	Isoplus220	IXYS
IXTC240N055T	55	132	0.0040				7600	170	30	1.00	150	Isoplus220	IXYS
IXTC280N055T	55	145	0.0036				9800	200	30	0.96	160	Isoplus220	IXYS
IXUC160N075	75	160	0.0065					250	120	0.50	300	Isoplus220	IXYS
IXTC200N075T	75	110	0.0055				6800	160	80	1.00	150	Isoplus220	IXYS
IXTC220N075T	75	115	0.0050				7700	165	50	1.00	150	Isoplus220	IXYS
IXTC250N075T	75	128	0.0044				9900	200	90	0.96	160	Isoplus220	IXYS
IXTC180N085T	85	110	0.0061				8800	170	63	1.00	150	Isoplus220	IXYS
IXTC200N085T	85	110	0.0055				7600	160	90	1.00	150	Isoplus220	IXYS
IXTC230N085T	85	120	0.0053				9900	187	90	0.96	160	Isoplus220	IXYS
IXFC110N10P	100	60	0.017				3550	110	150	1.25	120	Isoplus220	IXYS
IXTC160N10T	100	83	0.0075				6600	132	60	1.60	140	Isoplus220	IXYS
IXTC180N10T	100	90	0.0070				6900	151	100	1.00	150	Isoplus220	IXYS
IXTC200N10T	100	101	0.0063				9400	152	76	0.96	160	Isoplus220	IXYS
IXFC96N15P	150	42	0.026				3500	110	200	1.25	120	Isoplus220	IXYS
IXFC74N20P	200	35	0.036				3300	107	200	1.25	120	Isoplus220	IXYS
IXTC96N25T	250	40	0.031				6100	114	158	0.85	147	Isoplus220	IXYS
IXTC110N25T	250	50	0.027				9400	157	170	0.69	180	Isoplus220	IXYS
IXFC52N30P	300	24	0.075				3490	110	200	1.25	100	Isoplus220	IXYS
IXFC16N50P	500	10	0.45				2250	43	200	1	125	Isoplus220	IXYS
IXTC26N50P	500	15	0.26				3600	65	400	0.95	130	Isoplus220	IXYS
IXFC26N50P	500	15	0.26				3600	65	250	0.95	130	Isoplus220	IXYS
IXFC36N50P	500	19	0.19				5500	93	250	0.75	156	Isoplus220	IXYS
IXFC14N60P	600	8	0.63				2500	36	200	1	125	Isoplus220	IXYS
IXFC22N60P	600	12	0.36				4000	58	200	0.95	130	Isoplus220	IXYS
IXKC20N60C	600	14	0.19				3000	79	610	1	125	Isoplus220	IXYS
IXFC30N60P	600	15	0.25				3820	85	200	0.75	166	Isoplus220	IXYS
IXKC15N60C5	600	15	0.165				2000	40	390	1.1	114	Isoplus220	IXYS
IXKC19N60C5	600	19	0.125				2500	53	430	0.95	132	Isoplus220	IXYS
IXKC23N60C5	600	23	0.1				2800	60	430	0.85	147	Isoplus220	IXYS
IXKC40N60C	600	24	0.96				6000	158	610	0.5	250	Isoplus220	IXYS
IXFC12N80P	800	7	0.93				2800	51	250	1.05	120	Isoplus220	IXYS
IXFC14N80P	800	8	0.77				3900	61	250	0.95	130	Isoplus220	IXYS
IXFC16N80P	800	9	0.65				4000	70	250	0.9	138	Isoplus220	IXYS
IXFC20N80P	800	10	0.57				4685	86	250	0.8	160	Isoplus220	IXYS
IXKC13N80C	800	13	0.29				2300	90	550	1	130	Isoplus220	IXYS
IXKC25N80C	800	25	0.15				4600	180	550	0.5	140	Isoplus220	IXYS

T03P iso

2SK3835	60	50	0.015			0.022	3500	67			40	T03P iso	SANYO/ONS
2SK3836	100	33	0.034			0.043	4200	79			40	T03P iso	SANYO/ONS
RJK2009DPM	200	40	0.036			-	2900				60	T03P iso	RENESAS
H5N2301PF	230	25	0.085			-	2250				-	T03P iso	RENESAS
H5N2306PF	230	30	0.052			-	3500				60	T03P iso	RENESAS
H5N2305PF	230	35	0.038			-	5200				-	T03P iso	RENESAS
H5N2509PF	250	30	0.069			0.09	3600				60	T03P iso	RENESAS
H5N2802PF	280	25	0.066			-	3600				-	T03P iso	RENESAS
H5N2803PF	280	30	0.047			-	5150				60	T03P iso	RENESAS
RJK5015DPM	500	25	0.24			-	2600				-	T03P iso	RENESAS
H5N5004PL	500	50	0.11			-	7630				250	T03P iso	RENESAS
H5N5016PL	500	50	0.128			-	5300				250	T03P iso	RENESAS
H5N5005PL	500	60	0.085			-	1550				-	T03P iso	RENESAS
RJK6015DPM	600	21	0.36			-	2600				-	T03P iso	RENESAS
RJK6018DPM	600	30	0.235			-	4100				-	T03P iso	RENESAS
2SK1463	900	4.5	3.6				700				60	T03P iso	SANYO/ONS
2SK1464	900	8	1.6				1600				80	T03P iso	SANYO/ONS
2SK3747	1500	2	13				380	37.5			50	T03P iso	SANYO/ONS
2SK2225	1500	2	12								60	T03P iso	Renesas
WPH4005 (from 2012)	1500	2	8									T03P iso	SANYO/ONS
2SK3748	1500	4	7				790	80	340		65	T03P iso	SANYO/ONS
WPH4003	1700	3	9.9				940	50				T03P iso	SANYO/ONS

NP = Automotive AEC-Q101

Isoplus 220



MOSFET

T03P iso



MOSFET

N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer	
	Ta=25°C												
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc			PD
			VGS = 10V	VGS = 5V	VGS = 4,5V	VGS = 4,0V							
max			max	max	max								
[V]	[A]	[Ω]	[Ω]	[Ω]	[Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			

Isoplus247

IXFR200N10P	100	120	0.008				7600	235	100	0.5	300	Isoplus247	IXYS
IXFR200N10P	100	133	0.009				7600	235	150	0.5	300	Isoplus247	IXYS
IXFR180N15P	150	100	0.013				7000	240	200	0.5	300	Isoplus247	IXYS
IXFR140N20P	200	90	0.022				7500	240	200	0.5	300	Isoplus247	IXYS
IXFR102N30P	300	60	0.036				7500	224	200	0.5	250	Isoplus247	IXYS
IXFR140N30P	300	70	0.026				14800	185	200	0.35	360	Isoplus247	IXYS
IXFR36N50P	500	19	0.19				5500	93	200	0.75	156	Isoplus247	IXYS
IXFR44N50P	500	24	0.15				5440	98	200	0.6	208	Isoplus247	IXYS
IXFR40N50Q2	500	29	0.17				4850	110	250	0.39	320	Isoplus247	IXYS
IXFR64N50P	500	35	0.095				8700	150	200	0.42	300	Isoplus247	IXYS
IXFR80N50P	500	45	0.072				12700	197	200	0.35	360	Isoplus247	IXYS
IXFR66N50Q2	500	50	0.085				9125	200	250	0.25	500	Isoplus247	IXYS
IXFR30N60P	600	15	0.25				3820	85	200	0.75	166	Isoplus247	IXYS
IXFR36N60P	600	20	0.2				5800	102	200	0.6	208	Isoplus247	IXYS
IXFR48N60P	600	32	0.15				8860	150	200	0.42	300	Isoplus247	IXYS
IXFR64N60P	600	36	0.105				12000	200	200	0.35	360	Isoplus247	IXYS
IXFR44N60	600	38	0.13				8900	330	250	0.3	417	Isoplus247	IXYS
IXKR40N60C	600	38	0.07				6800	250	650	0.45	280	Isoplus247	IXYS
IXKR47N60C5	600	47	0.045				6800	150	600	0.45	278	Isoplus247	IXYS
IXFR20N80P	800	10	0.57				4685	86	250	0.8	160	Isoplus247	IXYS
IXFR24N80P	800	13	0.42				7200	105	250	0.6	208	Isoplus247	IXYS
IXFR32N80P	800	20	0.29				8800	150	250	0.42	300	Isoplus247	IXYS
IXKR25N80C	800	25	0.15				4600	170	550	0.50	250	Isoplus247	IXYS
IXFR44N80P	800	26	0.19				12000	200	250	0.35	360	Isoplus247	IXYS
IXFR38N80Q2	800	28	0.240				9500	190	250	0.25	500	Isoplus247	IXYS
IXFR18N90P	900	10.5	0.660				5230	97	300	0.62	200	Isoplus247	IXYS
IXFR24N90P	900	13	0.460				7200	130	300	0.54	230	Isoplus247	IXYS
IXFR40N90P	900	21	0.23				14000	230	300	0.42	300	Isoplus247	IXYS
IXFR4N100Q	1000	3.5	3				1050	39	200	1.57	80	Isoplus247	IXYS
IXFR14N100Q2	1000	9.5	1.1				2800	83	300	0.62	200	Isoplus247	IXYS
IXFR20N100P	1000	11	0.64				7300	126	300	0.54	230	Isoplus247	IXYS
IXFR26N100P	1000	15	0.43				11900	197	300	0.43	290	Isoplus247	IXYS
IXFR32N100P	1000	18	0.34				14200	225	300	0.39	320	Isoplus247	IXYS
IXFR24N100	1000	22	0.390				8700	267	250	0.30	416	Isoplus247	IXYS
IXFR30N110P	1100	16	0.4				13600	235	300	0.39	320	Isoplus247	IXYS
IXFR16N120P	1200	9	1.04				6900	120	300	0.54	230	Isoplus247	IXYS
IXFR20N120P	1200	13	0.63				12900	193	300	0.43	290	Isoplus247	IXYS
IXFR26N120P	1200	15	0.5				14000	225	300	0.39	320	Isoplus247	IXYS

Isoplus264

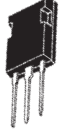
IXFL60N80P	800	40	0.15				18000	250	250	0.2	625	Isoplus264	IXYS
IXFL44N100P	1000	22	0.24				19000	305	300	0.35	357	Isoplus264	IXYS
IXFL38N100Q2	1000	29	0.28				13500	250	300	0.33	380	Isoplus264	IXYS
IXFL38N100P	1000	29	0.23				24000	350	300	0.24	520	Isoplus264	IXYS
IXFL34N100	1000	30	0.3				9200	380	180	0.225	556	Isoplus264	IXYS
IXFL40N110P	1100	21	0.28				19000	310	300	0.35	357	Isoplus264	IXYS
IXFL36N110P	1100	26	0.26				23000	350	300	0.24	520	Isoplus264	IXYS
IXFL30N120P	1200	18	0.38				19000	310	300	0.35	357	Isoplus264	IXYS
IXFL32N120P	1200	24	0.34				21000	360	300	0.24	520	Isoplus264	IXYS

Isoplus i4-PAK

IXTF2N300	3000	2			Under Development							Isoplus i4-PAK	IXYS
IXTF03N400	4000	0,2			Under Development							Isoplus i4-PAK	IXYS
IXTF1N400	4000	1	60				2570	76	3500	0.87	160	Isoplus i4-PAK	IXYS

NP = Automotive AEC-Q101

ISOPLUS247



MOSFET

ISOPLUS264™



ISOPLUS i4-PAK™



MOSFET

Dual N/N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics							Ciss	Qg	PD	Package	Manufacturer
	Ta=25°C											
	VDSS	ID	RDS(on) [Ω]									
	[V]	[A]	VGS=10V	VGS=4.5V	VGS=4V	VGS=2.5V	VGS=1.8V					
CH1 / CH2	CH1 / CH2	[Ω]	[Ω]	[Ω]	[Ω]	[Ω]	[pF]	[nC]	[W]			
4pinEFLIP												
UPA2353T1G-E4	20 / 20	6		31						1.3	4pin EFLIP	RENESAS
UPA2350T1G-E4	20 / 20	6		35	37	55				1.3	4pinEFLIP	RENESAS
UPA2354T1G-E4	24 / 24	4		42						0.75	4pin EFLIP	RENESAS
UPA2352T1G-E4	24 / 24	4		43	45	67				0.75	4pinEFLIP	RENESAS
UPA2351T1G-E4	30 / 24	5.7		40	42	64				1.3	4pinEFLIP	RENESAS
HWSON6												
UPA2450BTL-E1/E2	20 / 20	8.6		17.5	18.5	27.5				2.5	HWSON6	RENESAS
UPA2450CTL-E1/E2	20 / 20	8.6		17.5	18.5	27.5				2.5	HWSON6	RENESAS
UPA2450TL-E1/E2	20 / 20	8.6		17.5	18.5	27.5				2.5	HWSON6	RENESAS
UPA2450BTL 1)	20 / 20	8.6 / 8.6		17.5	18.5	27.5					HWSON6	RENESAS
UPA2450TL 1)	20 / 20	8.6 / 8.6		17.5	18.5	27.5					HWSON6	RENESAS
UPA2452TL-E1/E2	24 / 24	7.8		21.5	22.5	30				2.5	HWSON6	RENESAS
UPA2452TL 1)	24 / 24	7.8 / 7.8		21.5	22.5	30					HWSON6	RENESAS
UPA2451BTL-E1/E2	30 / 30	8.2		20	21	32				2.5	HWSON6	RENESAS
UPA2451CTL-E1/E2	30 / 30	8.2		20	21	32				2.5	HWSON6	RENESAS
UPA2451TL-E1/E2	30 / 30	8.2		20	21	32				2.5	HWSON6	RENESAS
UPA2451TL 1)	30 / 30	8.2 / 8.2		20	21	32					HWSON6	RENESAS
UPA2451BTL 1)	30 / 30	8.2 / 8.2		20	21	32					HWSON6	RENESAS
S08												
FW231A	20 / 20	8 / 8			0.024	0.033		1530	21	2.3	S08	SANYO/ONS
FW231	20 / 20	9 / 9			0.02	0.027		1950	60	1.7	S08	SANYO/ONS
FW241	30 / 30	3.5 / 3.5	0.084		0.15			180	5	2	S08	SANYO/ONS
UPA2757GR	30 / 30	5 / 5	0.036	0.05						2	S08	RENESAS
FW261	30 / 30	5 / 5	0.048		0.083			460	8.6	1.8	S08	SANYO/ONS
FW245	30 / 30	7 / 7	0.034		0.055			550	10	1.7	S08	SANYO/ONS
HAT2210R	30	7.5/8	0.024/0.022	0.040/0.029				630/1330		1.5	S08	RENESAS
UPA2755GR	30 / 30	8 / 8	0.018	0.029						2.2	S08	RENESAS
FW808	30 / 30	8 / 8	0.022		0.038			870	16	2.3	S08	SANYO/ONS
FW232A	30 / 30	8 / 8			0.026	0.034		1430	19	2.3	S08	SANYO/ONS
UPA2750GR	30 / 30	9 / 9	0.0155	0.021	0.0239					2	S08	RENESAS
UPA2751GR	30 / 30	9 / 9	0.0155	0.021	0.0239					2	S08	RENESAS
FW262	30 / 30	9 / 9			0.016	0.02		2350	72	1.7	S08	SANYO/ONS
UPA2758GR-E1/E2*	30 / 30	9 / 5.4	0.0138 / 0.03	0.018 / 0.046						2	S08	RENESAS
UPA2754GR	30 / 30	11 / 11		0.0145	0.015	0.0186				2	S08	RENESAS
FW803	30 / 30	11 / 11	0.014		0.022			2300	33	2.4	S08	SANYO/ONS
FW217	35 / 35	6 / 6	0.044		0.091			630	12	1.8	S08	SANYO/ONS
FW250	60 / 60	3 / 3	0.145		0.215			300	7.8	1.8	S08	SANYO/ONS
UPA2756GR	60 / 60	4 / 4	0.105		0.15					2	S08	RENESAS
UPA1763G	60 / 60	4.5 / 4.5	0.047	0.057	0.066					2	S08	RENESAS
FW256	60 / 60	5 / 5	0.058		0.084			790	16	2	S08	SANYO/ONS
UPA1764G	60 / 60	7 / 7	0.035	0.042	0.046					2	S08	RENESAS
FW257	100 / 100	2 / 2	0.22		0.31			530	13	1.4	S08	SANYO/ONS
FW225	450 / 450	0.7 / 0.7	11.2					130	5	1.6	S08	SANYO/ONS
SOT23-5												
CPH5611 1)	20 / 20	3 / 3			0.07	0.102		280	8.8	0.9	SOT23-5	SANYO/ONS
CPH5617 1)	30 / 30	0.15 / 0.15			3.7	5.2		7	1.58	0.25	SOT23-5	SANYO/ONS
CPH5610 1)	60 / 60	1.2 / 1.2	0.5		0.68			70	3.6	0.9	SOT23-5	SANYO/ONS
CPH5614 1)	100 / 100	1 / 1	0.63		0.81			240	6.5	0.9	SOT23-5	SANYO/ONS
CPH5612 1)	100 / 100	1 / 1			0.57	0.65		350	4.4	0.9	SOT23-5	SANYO/ONS
CPH5616 1)	60 / 60	1.7 / 1.7	0.22		0.3			-	-	0.8	SOT23-5	SANYO/ONS
SOT23-6												
UPA2970TE-T1/T2	20 / 20	2 / 2	0.05	0.069	0.072	0.107				1.15	SOT23-6	RENESAS
CPH6602	20 / 20	2 / 2			0.13	0.18		190	2.7	0.9	SOT23-6	SANYO/ONS
CPH6612	20 / 20	2 / 2			0.165	0.235		120	2.3	0.8	SOT23-6	SANYO/ONS
UPA1970TE	20 / 20	2.2 / 2.2		0.069	0.072	0.107				1.1	SOT23-6	NEC
CPH6613	20 / 20	2.5 / 2.5			0.095	0.135		270	4	0.9	SOT23-6	SANYO/ONS
CPH6622	20 / 20	3 / 3			0.07	0.1		-	10.5	0.9	SOT23-6	SANYO/ONS
CPH6604	30 / 30	2 / 2	0.15		0.27			120	3.6	0.9	SOT23-6	SANYO/ONS
CPH6616	30 / 30	2.5 / 2.5	0.105		0.21			187	5.2	0.9	SOT23-6	SANYO/ONS
HAT2285WP	30 / 30	14/22	0.024/0.018	0.04/0.023				630/1930		-	SOT23-6	RENESAS
RJK0389DPA	30 / 30	15/20	0.0107/0.0089	0.0165/0.0147				880/1000		-	SOT23-6	RENESAS

NP = Automotive AEC-Q101



EFLIP



HWSON6



MOSFET



S08



SOT23-5



SOT23-6

MOSFET

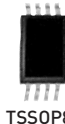
Dual N/N-Channel

Type No.	Absolute maximum ratings / Electrical characteristics						Ciss	Qg	PD	Package	Manufacturer	
	Ta=25°C											
	VDSS	ID	RDS(on) [Ω]									
	V	[A]	VGS=10V	VGS=4.5V	VGS=4V	VGS=2.5V						VGS=1.8V
CH1 / CH2	CH1 / CH2	[Ω]	[Ω]	[Ω]	[Ω]	[Ω]	[pF]	[nC]	[W]			
SOT363												
MCH6616	20 / 20	1.6 / 1.6			0.23	0.31		105	1.4	0.8	SOT363	SANYO/ONS
MCH6646	20 / 20	2 / 2			0.16	0.225	0.33	115	1.78	0.8	SOT363	SANYO/ONS
MCH6602	30 / 30	0.35 / 0.35			3.7	5.2		7	1.58	0.8	SOT363	SANYO/ONS
MCH6608	30 / 30	0.65 / 0.65			1.2	1.7		30	2.34	0.8	SOT363	SANYO/ONS
MCH6630	30 / 30	0.7 / 0.7			0.9	1.15		30	1	0.8	SOT363	SANYO/ONS
MCH6620	30 / 30	1.4 / 1.4	0.3		0.56			65	2.5	0.8	SOT363	SANYO/ONS
MCH6606	50 / 50	0.25 / 0.25	7.5		10.5			6.2	1.4	0.8	SOT363	SANYO/ONS
MCH6604	50 / 50	0.25 / 0.25			7.8	9.9		6.6	1.57	0.8	SOT363	SANYO/ONS
MCH6612	50 / 50	0.45 / 0.45	2.3		3.2			22	1.86	0.8	SOT363	SANYO/ONS
MCH6610	50 / 50	0.45 / 0.45			2.4	3		25	2.18	0.8	SOT363	SANYO/ONS
MCH6622	60 / 60	1 / 1	0.63		0.9			70	3	0.8	SOT363	SANYO/ONS
SOT563												
SCH2401	30 / 30	0.7 / 0.7			0.9	1.15		30	1	0.65	SOT563	SANYO/ONS
TSSOP8												
FTD2011A	20 / 20	4 / 4			0.039	0.056		740	10	0.8	TSSOP8	SANYO/ONS
UPA1873GR-9JG-E1/E2	20 / 20	6 / 6		0.023	0.024	0.029				2	TSSOP8	RENESAS
UPA1870BGR-9JG-E1/E2	20 / 20	6 / 6		0.020	0.021	0.027				2	TSSOP8	RENESAS
UPA1870GR-9JG-E1/E2	20 / 20	6 / 6		0.020	0.021	0.027				2	TSSOP8	RENESAS
UPA1870BGR 1)	20 / 20	6 / 6		0.02	0.021	0.027				2	TSSOP8	RENESAS
UPA1873GR 1)	20 / 20	6 / 6		0.023	0.024	0.029				2	TSSOP8	RENESAS
FTD2017A	20 / 20	6 / 6			0.023	0.033		1530	21	1.3	TSSOP8	SANYO/ONS
FTD2017R 1)	20 / 20	6 / 6			0.024	0.033		-	10	1.2	TSSOP8	SANYO/ONS
FTD8005	20 / 20	6 / 6			0.019	0.026		1980	28	1.1	TSSOP8	SANYO/ONS
FTD8004 1)	20 / 20	8 / 8			0.016	0.023		2400	28	1.4	TSSOP8	SANYO/ONS
UPA1872BGR	20 / 20	10 / 10		0.013	0.0135	0.018				2	TSSOP8	RENESAS
UPA1871GR 1)	30 / 30	6 / 6		0.026	0.027	0.038				2	TSSOP8	RENESAS
FTD2019A 1)	30 / 30	6 / 6			0.026	0.034		1430	19	1.3	TSSOP8	SANYO/ONS
FTD8007	30 / 30	6 / 6			0.022	0.029		1800	26.5	1.1	TSSOP8	SANYO/ONS
UPA1874BGR 1)	30 / 30	8 / 8		0.014	0.0145	0.0195				2	TSSOP8	RENESAS
FTD8002 1)	30 / 30	8 / 8			0.017	0.024		2610	26	1.4	TSSOP8	SANYO/ONS
FTD2012	30 / 30	4.5 / 4.5	0.034		0.06			750	18	0.8	TSSOP8	SANYO/ONS
FTD2022	30 / 30	4.5 / 4.5	0.034		0.055			530	10	0.8	TSSOP8	SANYO/ONS
UPA1857GR	60 / 60	3.8 / 3.8	0.067	0.086	0.095					1.7	TSSOP8	RENESAS
VSO8												
UPA2560T1H-T1/T2	30 / 30	4.5	0.050	0.083						2.2	VSO8	RENESAS
UPA2562T1H-T1/T2	30 / 30	4.5		0.055						2.2	VSO8	RENESAS
UPA2561T1H-T1/T2	30 / 30	4.5		0.050						2.2	VSO8	RENESAS

1) common Drain

* Heat sink bottom side

NP = Automotive AEC-Q101



MOSFET



MOSFET

Dual / NP complementary

Type No.	Absolute maximum ratings / Electrical characteristics															Package	Manufacturer
	Ta=25°C																
	Pch									Nch							
	VDSS	ID	PD	RDS(on) [Ω]				Ciss	Qg	VDSS	ID	RDS(on) [Ω]			Ciss		
[V]	[A]	[W]	VGS=10V	VGS=4.5V	VGS=4V	VGS=2.5V	[pF]	[nC]	[V]	[A]	VGS=10V	VGS=4.5V	VGS=4V	VGS=2.5V	[pF]	[nC]	[W]

SOT563

SCH2602	12	1.5	0.6			0.31	0.47	160	2.6	30	0.35				3.7	5.2	7	1.58	0.6	SOT563	SANYO/ONS
SCH2601	30	0.4	0.65			1.9	2.8	40	0.83	30	0.7				0.9	1.15	30	1	0.65	SOT563	SANYO/ONS

SOT363

MCH6631	12	1.5	0.8			0.29	0.45	160	2.6	30	0.35				3.7	5.2	7	1.58	0.8	SOT363	SANYO/ONS
MCH6632	12	1.5	0.8			0.305	0.465	160	2.6	20	1.6				0.245	0.325	105	1.4	0.8	SOT363	SANYO/ONS
MCH6626	20	1	0.8			0.5	0.76	115	1.5	20	1.6				0.23	0.45	105	1.4	0.8	SOT363	SANYO/ONS
MCH6628	20	1	0.8			0.5	0.76	115	1.5	30	0.35				3.7	5.2	7	1.58	0.8	SOT363	SANYO/ONS
MCH6613	30	0.2	0.8			10.4	15.4	7.5	1.43	30	0.35				3.7	5.2	7	1.58	0.8	SOT363	SANYO/ONS
MCH6614	30	0.4	0.8			3.1	4.9	28	2	30	0.35				3.7	5.2	7	1.58	0.8	SOT363	SANYO/ONS
MCH6615	30	0.4	0.8			3.1	4.9	28	2	30	0.65				1.2	1.7	30	2.34	0.8	SOT363	SANYO/ONS
MCH6634	30	0.4	0.8			1.9	2.8	40	0.83	30	0.7				0.9	1.15	30	1	0.8	SOT363	SANYO/ONS
MCH6627	30	1	0.8	0.55		1		75	2.6	30	1.4	0.3			0.3		65	2.5	0.8	SOT363	SANYO/ONS
MCH6644	30	1.2	0.8	0.42		0.83		104	3.3	30	1.8	0.21			0.21		95	3.2	0.8	SOT363	SANYO/ONS
MCH6618	50	0.14	0.8	22		32		6.2	1.32	30	0.35	3.7			3.7		7	1.58	0.8	SOT363	SANYO/ONS

SOT23-5

CPH5606	30	1	1.3	0.3		0.49		90	5	30	1.4	0.3			0.3		90	5	1.3	SOT23-5	SANYO/ONS
---------	----	---	-----	-----	--	------	--	----	---	----	-----	-----	--	--	-----	--	----	---	-----	---------	-----------

SOT23-6

CPH6619	12	2	0.8			0.165	5.2	310	4	30	0.4				3.7	5.2	7	4.6	0.8	SOT23-6	SANYO/ONS
CPH6605	20	1.5	0.8			0.235	0.34	40	3.2	30	0.65				1.2	1.7	30	2.34	0.8	SOT23-6	SANYO/ONS
CPH6610	30	0.4	0.8			1.8	2.8	40	0.83	30	1.4				0.32	0.58	65	2.5	0.8	SOT23-6	SANYO/ONS
CPH6614	30	1.2	0.8	0.42		0.83		104	3.3	30	1.8	0.195			0.195		95	3.2	0.8	SOT23-6	SANYO/ONS
CPH6615	30	1.8	0.9	0.235		0.45		226	5.5	30	2.5	0.105			0.105		187	5.2	0.9	SOT23-6	SANYO/ONS

TSSOP8

UPA1890GR*	30	5	2	0.037	0.056	0.064		851	15	30	6	0.027	0.037	0.047			748	14	2	TSSOP8	RENESAS
------------	----	---	---	-------	-------	-------	--	-----	----	----	---	-------	-------	-------	--	--	-----	----	---	--------	---------

S08

UPA1793G*	20	3	1.7		0.115	0.12	0.19	370	3.4	20	3		0.069	0.072	0.107	160	3.1	1.7	S08	RENESAS
FW905	20	6	2.3			0.04	0.059	1720	18.4	20	7			0.024	0.033	1530	18.5	2.3	S08	SANYO/ONS
FW341	30	2.5	1.4	0.145		0.34		200	5.5	30	3.5	0.084		0.084		180	5	1.4	S08	SANYO/ONS
FW343	30	4	1.8	0.069		0.147		510	11	30	5	0.048		0.048		460	8.6	1.8	S08	SANYO/ONS
FW344	30	4	1.4	0.078		0.147		510	11	30	3.5	0.084		0.084		180	5	1.4	S08	SANYO/ONS
FW340	30	5	1.8	0.053		0.098		1000	16.5	30	5	0.048		0.048		460	8.6	1.8	S08	SANYO/ONS
FW342	30	5	1.8	0.053		0.087		1000	16.5	30	6	0.033		0.033		850	16	1.8	S08	SANYO/ONS
UPA2791GR*	30	5	1.7	0.082	0.11			325	8.5	30	5	0.036	0.05			640	9	1.7	S08	RENESAS
UPA2790GR*	30	6	1.7	0.06	0.08	0.11		500		30	6	0.028	0.04	0.053		460	12.6	1.7	S08	RENESAS
UPA2792GR*	30	10	1.7	0.018	0.026			2200	47	30	10	0.0125	0.021			2200	42	1.7	S08	RENESAS
UPA2793GR*	40	7	1.7	0.026	0.036			2200	45	40	7	0.015	0.023			2200	40	1.7	S08	RENESAS
UPA1790	60	1	1.7	0.6		1.1		230	7.6	60	0.7	0.26		0.34		180	8	1.7	S08	RENESAS
FW359	60	3	1.8	0.145		0.205		990	22	60	3	0.145		0.145		300	7.8	1.8	S08	SANYO/ONS
FW356	60	3.5	2	0.145		0.21		990	22	60	5	0.058		0.058		790	16	2	S08	SANYO/ONS
UPA2794GR*	60	5.5	1.7	0.043	0.054			2200	45	60	5.5	0.025	0.033			2200	41	1.7	S08	RENESAS
FW360	100	2	1.4	0.315		0.45		935	20	100	2	0.22		0.22		530	13	1.4	S08	SANYO/ONS
FW307	250	0.7	1.7	4		-		160	-	250	1	1.6		1.6		160	-	1.7	S08	SANYO/ONS

NP = Automotive AEC-Q101

Type No.	VDSS [V]	ID [A]	PD [W]	RDS(ON)				Package	Manufacturer
				10 V	4.5 V	4.0 V	2.5 V		

VSOF-8

UPA2592T1H-T1/T2	20/-20	4/-3	1.24			50/80			VSOF-8	RENESAS
UPA2590T1H-T1/T2	30/-30	4.5/-4.5	1.2			50/72	83/105		VSOF-8	RENESAS
UPA2591T1H-T1/T2	30/-30	4/-3	1.24				6.25		VSOF-8	RENESAS
UPA2593T1H-T1/T2*	40/-40	4.5/-4.5	1.5			65/150	125/200		VSOF-8	RENESAS

NP = Automotive AEC-Q101

Type No.	Ratings			Characteristics				Remarks	Package name	Manufacturer	
	VGSS (V)	ID (A)	VDSS (V)	RDS(ON)							Ciss (pF) typ
				typ.(ohm) @10V[8V]	max.(ohm) @10V[8V]	typ.(ohm) @4V[4.5V]	max.(ohm) @4V[4.5V]				

8 pin HVSON

RJK0226DNS	+/-12	40	25	[0.0023]	[0.0028]	[0.0027]	[0.0034]	4300	-	8pin HVSON(3333)	RENESAS
RJK0225DNS	+16/-12	30	25	0.0059	0.0072	[0.0074]	[0.0096]	1650	-	8pin HVSON(3333)	RENESAS

HWSON-8

RJK0222DNS	-	14/16	25/25	0.0076/[0.0049]	0.0092/[0.0059]	[0.0105/0.0062]	[0.0137/0.0081]	810/1680	2chip in1&Built in SBD	HWSON3046-8	RENESAS
RJK0223DNS	-	14/16	25/25	0.0076/0.0054	0.0092/0.0065	[0.0105/0.0078]	[0.0137/0.0101]	810/1243	2chip in1&Built in SBD	HWSON3046-8	RENESAS

WPAK

RJK03H1DPA	+/-12	45	30	[0.002]	[0.0024]	[0.0024]	[0.003]	5300	-	WPAK	RENESAS
RJK0216DPA	+/-20	15/32	25/25	0.0076/0.0036	0.0092/0.0044	[0.0105/0.0057]	[0.0137/0.0074]	810/1600	2chip in1&Built in SBD	WPAK	RENESAS
RJK0215DPA	+/-20	15/40	25/25	0.0076/0.0025	0.0092/0.003	[0.0105/0.0037]	[0.0137/0.0048]	810/2500	2chip in1&Built in SBD	WPAK	RENESAS
RJK0214DPA	+/-20	15/45	25/25	0.0076/0.0016	0.0092/0.002	[0.0105/0.0021]	[0.0137/0.0028]	810/5200	2chip in1&Built in SBD	WPAK	RENESAS
RJK0212DPA	+16/-12	25	25	0.009	0.0108	[0.012]	[0.0156]	1030	-	WPAK	RENESAS
RJK0211DPA	+16/-12	30	25	0.0068	0.0082	[0.0087]	[0.0113]	1400	-	WPAK	RENESAS
RJK0210DPA	+16/-12	40	25	0.0045	0.0054	[0.0057]	[0.0074]	2290	-	WPAK	RENESAS

* Heat sink bottom side

NP = Automotive AEC-Q101



SOT563



SOT363



SOT23-5



SOT23-6



TSSOP8



S08



VSOF-8



HWSON-8



8 pin HVSON



WPAK



WPAK



WPAK



WPAK



WPAK

MOSFET

Dual P/P-Channel

Type No.	Absolute maximum ratings / Electrical characteristics							Ciss	Qg	PD	Package	Manufacturer
	Ta=25°C											
	VDSS		ID	RDS(on) [Ω]								
	[V]	[A]	VGS=10V	VGS=4.5V	VGS=4V	VGS=2.5V	VGS=1.8V					
CH1 / CH2	CH1 / CH2	[Ω]	[Ω]	[Ω]	[Ω]	[Ω]	[pF]	[nC]	[W]			
SOT563												
SCH2315	-12	-0.9		0.615		0.97	1.38	92	1.43	0.65	SOT563	SANYO/ONS
SCH2301	-30	-0.4			1.9	2.8	8	40	0.83	0.65	SOT563	SANYO/ONS
SOT363												
MCH6635	-20	-0.8			0.9	1.35		76	1.18	0.8	SOT363	SANYO/ONS
MCH6617	-20	-1			0.5	0.76		115	1.5	0.8	SOT363	SANYO/ONS
MCH6601	-30	-0.2			10.4	15.4		7.5	1.43	0.8	SOT363	SANYO/ONS
MCH6607	-30	-0.4			3.1	4.9		28	2	0.8	SOT363	SANYO/ONS
MCH6629	-30	-0.4			1.9	2.8		40	0.83	0.8	SOT363	SANYO/ONS
MCH6619	-30	-1	0.55		1			75	2.6	0.8	SOT363	SANYO/ONS
MCH6605	-50	-0.14	22		32			6.2	1.32	0.8	SOT363	SANYO/ONS
MCH6603	-50	-0.14			23	28		7.4	0.16	0.8	SOT363	SANYO/ONS
MCH6611	-50	-0.28	6.1		9.1			23	1.68	0.8	SOT363	SANYO/ONS
MCH6609	-50	-0.28			6.6	8.4		28	1.98	0.8	SOT363	SANYO/ONS
SOT23-6												
CPH6601	-20	-1.5			0.235	0.34		290	3.2	0.9	SOT23-6	SANYO/ONS
CPH6603	-30	-1.5	0.25		0.46			185	4.7	0.9	SOT23-6	SANYO/ONS
CPH6623	-30	-1.5	275		0.49			185	4.7	0.9	SOT23-6	SANYO/ONS
TSSOP8												
FTD7003	-12	-6		0.025		0.04	0.06	2100	28	1.4	TSSOP8	SANYO/ONS
FTD1011	-20	-3			0.065	0.096		1000	23	0.8	TSSOP8	SANYO/ONS
FTD1028	-20	-3			0.077	0.113		900	9.3	0.8	TSSOP8	SANYO/ONS
UPA1856GR-9JG-E1/E2	-20	-5		0.045	48	77				2.0	TSSOP-8	RENESAS
UPA1858GR-9JG-E1/E2	-20	-5		0.025	26	38				2.0	TSSOP-8	RENESAS
FTD1012	-30	-3	0.065		0.11			1000	19	0.8	TSSOP8	SANYO/ONS
FTD1029	-30	-3	0.073		0.164			570	11.7	0.8	TSSOP8	SANYO/ONS
S08												
UPA1750G-E1/E2	-20	-3.5	0.090		0.180					2	S08	RENESAS
FW111	-20	-5			0.058	0.098		980	30	1.7	S08	SANYO/ONS
UPA1770G-E1/E2	-20	-6		0.037	0.039	0.059				0.75	S08	RENESAS
FW168	-30	-4	0.072		0.145			590	12.8	1.4	S08	SANYO/ONS
FW156	-30	-3.5 / -2.8	0.145		0.21			990	22	2	S08	SANYO/ONS
FW169	-30	-6	0.038		0.073			1500	30	1.3	S08	SANYO/ONS
FW163	-30	-7	0.25		0.045			2500	47	1.7	S08	SANYO/ONS
UPA1772G-E1/E2	-30	-8	0.020	0.0295	0.034					2	S08	RENESAS
UPA2770GR-E1/E2	-40	-7	0.026	0.035						2	S08	RENESAS
UPA1774G-E1/E2	-60	-2.8	0.250	0.300	0.330					0.8	S08	RENESAS
SOT6												
UPA1950TE-T1/T2	-12	-3		0.130		0.205	0.375			1.2	SC-95/SOT-6	RENESAS
UPA1951TE-T1/T2	-12	-3		0.088		0.133	0.234			1.2	SC-95/SOT-6	RENESAS
UPA1952TE-T1/T2	-20	-2		0.135		0.183	0.284			1.2	SC-95/SOT-6	RENESAS
VSOP8												
UPA2550T1H-T1/T2	-12	-5		0.040		0.060				2.2	VSOP-8	RENESAS

NP = Automotive AEC-Q101



MOSFET



MOSFET

P-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer		
	Ta=25°C													
	VDSS [V]	ID [A]	RDS(on)					Ciss [pF]	Qg [nC]	PD [W]				
			VGS = 10V	VGS = 4.5V	VGS = 4.0V	VGS = 2.5V	VGS = 1.8V							
max [Ω]			max [Ω]	max [Ω]	max [Ω]	max [Ω]								
SOT563														
SCH1302	-20	-2					0.22	0.28		410	10	0.8	SOT563	SANYO/ONS
SCH1311	-30	-1.5	0.29				0.525					0.8	SOT563	SANYO/ONS
SCH1304	-30	-2	0.17				0.32					0.8	SOT563	SANYO/ONS
SOT323														
MCH3307	-20	-1				0.5	0.76			115	1.5	0.8	SOT323	SANYO/ONS
MCH3309	-20	-1.5				0.235	0.34			290	3.2	0.9	SOT323	SANYO/ONS
MCH3306	-20	-2					0.2	0.26		410	10	1	SOT323	SANYO/ONS
MCH3335	-30	-0.4				1.8	2.8			40	0.83	0.6	SOT323	SANYO/ONS
MCH3308	-30	-1	0.55			1						0.8	SOT323	SANYO/ONS
MCH3359	-30	-1.2	0.42			0.83						0.8	SOT323	SANYO/ONS
MCH3333	-30	-1.5				0.28	0.41			285	2.6	0.9	SOT323	SANYO/ONS
MCH3310	-30	-1.5	0.27			0.5						0.9	SOT323	SANYO/ONS
MCH3360	-30	-1.8	0.235			0.45						0.9	SOT323	SANYO/ONS
MCH3312	-30	-2	0.145			0.29						1	SOT323	SANYO/ONS
MCH3314	-60	-0.6	1.7			2.3						0.8	SOT323	SANYO/ONS
MCH3315	-60	-1	0.76			1.1						0.9	SOT323	SANYO/ONS
MCH3316	-60	-1.2	0.53			0.75						1	SOT323	SANYO/ONS
MCH3320	-100	-0.3	3.9			5						0.8	SOT323	SANYO/ONS
6HP04MH	-60	-0.12				2.4	3.7			27	1.88	0.6	SOT323	SANYO/ONS
MCH3321	-100	-0.5	2			2.5						0.9	SOT323	SANYO/ONS
MCH3322	-100	-0.6	1.45			1.7						1	SOT323	SANYO/ONS
SOT363														
MCH6305	-20	-4				0.065	0.098			680	8.7	1.5	SOT363	SANYO/ONS
UPA651TT	-20	-5		0.069			0.088	142					SOT363	RENESAS
MCH6428	-20	-5				0.05	0.07	0.11		340	1.5	-	SOT363	SANYO/ONS
MCH6429	-20	-6				0.028	0.038	0.076		680	1.5	-	SOT363	SANYO/ONS
MCH6318	-30	-2	0.145			0.29						1	SOT363	SANYO/ONS
MCH6306	-30	-4	0.069			0.129						1.5	SOT363	SANYO/ONS
MCH6412	-30	-5					0.057	0.09		790	7	1.5	SOT363	SANYO/ONS
MCH6424	-60	-3				0.115	0.135			690	8.2	1.5	SOT363	SANYO/ONS
SOT23														
CPH3317	-20	-1				0.47	0.73			115	1.5	0.9	SOT23	SANYO/ONS
CPH3313	-20	-1.6				0.235	0.34			290	3.2	1	SOT23	SANYO/ONS
CPH3337	-20	-3.5				0.074	0.113			903	9.3	1	SOT23	SANYO/ONS
CPH3340	-20	-5				0.045	0.062			1875	16	1.2	SOT23	SANYO/ONS
RQJ0303PGDQA	-30	-3.3	0.068	0.107				-		625		0.8	SOT23	RENESAS
RQJ0305EQDQA	-30	-2.4	-	0.14			0.23			330		0.8	SOT23	RENESAS
RQJ0302NGDQA	-30	-2.2	0.173	0.303				-		195		0.8	SOT23	RENESAS
RQJ0304DQDQA	-30	-1.8	-	0.245			0.42			185		0.8	SOT23	RENESAS
CPH3318	-30	-1	0.55			1						0.9	SOT23	SANYO/ONS
CPH3314	-30	-1.6	0.27			0.5						1	SOT23	SANYO/ONS
CPH3345	-30	-2	0.13			0.24						1	SOT23	SANYO/ONS
RQJ0306FQDQA	-30	-3	-	0.095			0.165			510		0.8	SOT23	RENESAS
CPH3338	-30	-3.5	0.074			0.141						1	SOT23	SANYO/ONS
CPH3341	-30	-5	0.045			0.094						1.2	SOT23	SANYO/ONS
RQJ0603LGDQA	-60	-1.8	0.198	0.275				-		440		0.8	SOT23	RENESAS
RQJ0602EGDQA	-60	-1.1	0.613	0.854				-		145		0.8	SOT23	RENESAS
CPH3322	-60	-0.6	1.7			2.3						0.9	SOT23	SANYO/ONS
CPH3323	-60	-1	0.76			1.1						1.5	SOT23	SANYO/ONS
CPH3324	-60	-1.2	0.53			0.75						1	SOT23	SANYO/ONS
CPH3325	-100	-0.3	3.9			5						0.9	SOT23	SANYO/ONS
CPH3326	-100	-0.5	2			2.5						1	SOT23	SANYO/ONS
CPH3327	-100	-0.6	1.45			1.7						1	SOT23	SANYO/ONS
CPH3331	-200	-0.4	5			5.6						1	SOT23	SANYO/ONS
SOT23-6														
CPH6320	-12	-3.5					0.155	0.225		450	6.5	1.6	SOT23-6	SANYO/ONS
UPA1912TE	-12	-4.5		0.05		0.052	0.07						SOT23-6	RENESAS
UPA1916TE	-12	-4.5		39			55	98					SOT23-6	RENESAS
CPH6319	-12	-5					0.073	0.105		940	11	1.5	SOT23-6	SANYO/ONS
CPH6318	-12	-6					0.05	0.075		1900	22	1.6	SOT23-6	SANYO/ONS
UPA1911ATE	-20	-2.5		0.115		0.12	0.19						SOT23-6	RENESAS
CPH6315	-20	-3				0.15	0.21			410	4.5	1.6	SOT23-6	SANYO/ONS
CPH6313	-20	-4				0.072	0.11			680	8.7	1.6	SOT23-6	SANYO/ONS
UPA1913TE	-20	-4.5		0.055		0.058	0.09						SOT23-6	RENESAS
UPA1915TE	-20	-4.5		0.055		0.058	0.09						SOT23-6	RENESAS
CPH6311	-20	-5				0.042	0.06			1230	31	1.6	SOT23-6	SANYO/ONS
UPA1917TE	-20	-6		0.053		0.07	0.107						SOT23-6	RENESAS
UPA1919TE	-20	-6		0.058		0.06	0.084						SOT23-6	RENESAS
HAT1108C	-30	-1.5	0.194	0.356				-		160		0.83	SOT23-6	RENESAS
CPH6329	-30	-2				0.28	0.41			285	2.6	1.2	SOT23-6	SANYO/ONS
CPH6316	-30	-3	0.15			0.295						1.6	SOT23-6	SANYO/ONS
CPH6314	-30	-4	0.069			0.129						1.6	SOT23-6	SANYO/ONS
UPA1914TE	-30	-4.5	0.057	0.086	0.096								SOT23-6	RENESAS
UPA1930TE	-30	-4.5	0.077	0.1									SOT23-6	RENESAS
CPH6312	-30	-5	0.053			0.087						1.6	SOT23-6	SANYO/ONS
RJJ0315DPA	-30	-35	0.0059	0.01				-		4300			SOT23-6	RENESAS
CPH6324	-60	-2	0.36			0.56						1.6	SOT23-6	SANYO/ONS
HAT1111C	-60	-2	0.307	0.45				-		290		1.25	SOT23-6	RENESAS
UPA1918TE	-60	-3.5	0.143	0.179	0.19								SOT23-6	RENESAS
CPH6328	-100	-1.6	0.53			0.73						1.6	SOT23-6	SANYO/ONS

NP = Automotive AEC-Q101



SOT563



SOT323



SOT363



SOT23



SOT23



SOT23-6

MOSFET

P-Channel

Type No.	Absolute maximum ratings / Electrical characteristics										Package	Manufacturer
	Ta=25°C											
	VDSS [V]	ID [A]	RDS(on)					Ciss [pF]	Qg [nC]	PD [W]		
			VGS = 10V	VGS = 4.5V	VGS = 4.0V	VGS = 2.5V	VGS = 1.8V					
max [Ω]			max [Ω]	max [Ω]	max [Ω]	max [Ω]						
SOT89												
RQJ0301HGDQS	-30	-5.2	0.048	0.079				845		1.5	SOT89	RENESAS
RQJ0305EQDQS	-30	-3.4	-	0.14			0.23	330		0.8	SOT89	RENESAS
RQJ0304DQDQS	-30	-2.6	-	0.245			0.42	185		1.5	SOT89	RENESAS
2SJ615	-30	-2.5	0.27		0.46					3.5	SOT89	SANYO/ONS
RQJ0306FQDQS	-30	-4	-	0.095			0.165	510		0.8	SOT89	RENESAS
2SJ616	-30	-6	0.069		0.147					3.5	SOT89	SANYO/ONS
RQJ0601DGDQS	-60	-2.8	0.155	0.21			-	590		1.5	SOT89	RENESAS
RQJ0602EGDQS	-60	-1.5	0.607	0.868			-	135		1.5	SOT89	RENESAS
2SJ632	-60	-2	0.36		0.56					3.5	SOT89	SANYO/ONS
2SJ213	-100	-0.5	4.2		5						SOT89	RENESAS
2SJ199	-100	-1	2		2.5						SOT89	RENESAS
2SJ670	-100	-1.5	0.535		0.745					1.5	SOT89	SANYO/ONS
TSSOP8												
UPA1814GR	-30	-7	0.016	0.024	0.027						TSSOP8	RENESAS
UPA1830GR	-30	-9	0.017	0.025	0.028						TSSOP8	RENESAS
UPA1819GR	-30	-12	0.012	0.019	0.022						TSSOP8	RENESAS
HAT1065T	-200	-0.25	6.2		7.5			140		-	TSSOP8	RENESAS
S08												
FSS133	-20	-8			0.024	0.035		2900	65	1.8	S08	SANYO/ONS
FSS137	-20	-11			0.015	0.021		6100	120	2	S08	SANYO/ONS
FSS172	-30	-4.5	0.063		0.115					1.4	S08	SANYO/ONS
UPA2713GR	-30	-8	0.016	0.025	0.03						S08	RENESAS
FSS162	-30	-8	0.024		0.043					2.4	S08	SANYO/ONS
UPA2719GR	-30	-10	0.013	0.021	0.026						S08	RENESAS
FSS163	-30	-10	0.018		0.028					2.9	S08	SANYO/ONS
UPA2718GR	-30	-13	0.009	0.015	0.018						S08	RENESAS
UPA2716GR	-30	-14	0.007	0.011	0.014						S08	RENESAS
UPA2717GR	-30	-15	0.006	0.009	0.010						S08	RENESAS
UPA2715GR	-30	-18	0.005	0.009							S08	RENESAS
UPA1730TP	-30	-28	0.010	0.014	0.015						HSOP8	RENESAS
UPA2732UT1A	-30	-40	0.004	0.007							S08-Flat	RENESAS
UPA2730TP	-30	-42	0.007	0.011	0.012						HSOP8	RENESAS
UPA2731T1A	-30	-44	0.003	0.006							S08-Flat	RENESAS
FSS173	-45	-6	0.035		0.056					2.4	S08	SANYO/ONS
FSS145	-45	-8	0.024		0.04					2.9	S08	SANYO/ONS
HWSON8												
UPA2510TM	-30	-18	0.010	0.014							HWSON8	RENESAS
HVSON8												
UPA2732UT1A	-30	-40	0.004	0.007							HVSON8	RENESAS
UPA2731UT1A	-30	-44	0.003	0.006							HVSON8	RENESAS
NP50P03YDG	-30	-50	0.009					2100	63		HVSON8	RENESAS
NP75P03YDG	-30	-75	0.006					3100	95		HVSON8	RENESAS

* Heat sink bottom side NP = Automotive AEC-Q101

SOT89
UPAK
PCP
SC-62
MTP3

TSSOP8

MOSFET

S08

HWSON8

HVSON8*

MOSFET

P-Channel

Type No.	Absolute maximum ratings / Electrical characteristics /											Package	Manufacturer
	Ta=25°C												
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc	PD		
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
max			max	max	max								
[V]	[A]	[Ω]	[Ω]	[Ω]	[Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			
T0252													
UP2003L-TN3	-25	-9	0.02		0.035							T0252	UTC
2SJ325-Z	-30	-4	0.11			0.24						T0252	RENESAS
UT9435L-TN3	-30	-4.2	0.05		0.09							T0252	UTC
UTD405L-TN3	-30	-18	0.032		0.06							T0252	UTC
UT20P03	-30	-19										T0252	UTC
FX20ASJ-03F	-30	-20	0.13			0.29	500				-	T0252	RENESAS
ATP101	-30	-25	0.030				875	18.5			30	T0252	SANYO/ONS/ONS
UT30P03L-TN3	-30	-26	0.04		0.06							T0252	UTC
ATP102	-30	-40	0.0185				1490	34			40	T0252	SANYO/ONS/ONS
ATP103	-30	-55	0.013				2430	47			50	T0252	SANYO/ONS/ONS
UT60P03L-TN3	-30	-60	0.012		0.025							T0252	UTC
ATP104	-30	-75	0.0084				3950	76			60	T0252	SANYO/ONS/ONS
UT70P03L-TN3	-30	-75	0.008		0.01							T0252	UTC
UTD413L-TN3	-40	-12	0.045		0.069							T0252	UTC
NP15P04SLG	-40	-15	0.042		0.061							T0252	RENESAS
NP20P04SLG	-40	-20	0.028		0.04							T0252	RENESAS
UT30P04	-40	-21	0.030									T0252	UTC
ATP106	-40	-30	0.025				1380	47			40	T0252ATP	SANYO/ONS/ONS
NP36P04SDG	-40	-36	0.0175		0.025							T0252	RENESAS
UTT50P04	-40	-50	0.016									T0252	UTC
ATP107	-40	-50	0.017				2400	79.5			50	T0252ATP	SANYO/ONS/ONS
NP50P04SDG	-40	-50	0.0096		0.015							T0252	RENESAS
ATP108	-40	-70	0.0104				3850	27			60	T0252ATP	SANYO/ONS/ONS
NP15P06SLG	-60	-15	0.075		0.098							T0252	RENESAS
UTT18P06	-60	-18	0.072									T0252	UTC
2SJ599-Z	-60	-20	0.075			0.11						T0252	RENESAS
NP20P06SLG	-60	-20	0.05		0.064							T0252	RENESAS
H7P0601DS	-60	-20	0.05		0.085		2200				-	T0252	RENESAS
UTT25P06	-60	-25	0.040									T0252	UTC
ATP112	-60	-25	0.043				1450	33.5			40	T0252ATP	SANYO/ONS/ONS
UTT30P06	-60	-30	0.030									T0252	UTC
ATP113	-60	-35	0.0295				2400	55			50	T0252ATP	SANYO/ONS/ONS
NP36P06SLG	-60	-36	0.03		0.04							T0252	RENESAS
UTT40P06	-60	-40	0.026									T0252	UTC
NP50P06SDG	-60	-50	0.0165		0.0235							T0252	RENESAS
ATP114	-60	-55	0.016				4000	92			60	T0252ATP	SANYO/ONS/ONS
UTT60P06	-60	-60	0.016									T0252	UTC
ATP302	-60	-70	0.013				5400	115			70	T0252ATP	SANYO/ONS/ONS
ATP304	-60	-100	0.0065				11400	TBD			90	T0252ATP	SANYO/ONS/ONS
ATP303	-75	-50	0.026				3800	80			70	T0252ATP	SANYO/ONS/ONS
RJJ1011DPD	-100	-6	0.3		0.5		930				30	T0252	RENESAS
12P10-TN3	-100	-9.4	0.29									T0252	UTC
H7P1002DS	-100	-15	0.105			0.15	2600				-	T0252	RENESAS
UTT25P10	-100	-25	0.045		0.055							T0252	UTC
ATP301	-100	-28	0.075				4000				68	T0252ATP	SANYO/ONS/ONS
2SJ319S	-200	-3	2.3				330					T0252	RENESAS
2SJ130S	-300	-1	8.5				235					T0252	RENESAS
2SJ181S	-600	-0.5	25				220					T0252	RENESAS

NP = Automotive AEC-Q101

T0252
DPAK



MOSFET

MOSFET

P-Channel

Type No.	Absolute maximum ratings / Electrical characteristics /										Package	Manufacturer
	Ta=25°C											
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc		
[V]	[A]	VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V	[pF]	[nC]	[ns]	[°C/W]	[W]		
		max	max	max	max							
		[Ω]	[Ω]	[Ω]	[Ω]							

T0263

UT60P03L	-30	-60	0.012		0.025							T0263	UTC
UT70P03	-30	-75	0.008									T0263	UTC
NP36P04KDG	-40	-36	0.017		0.0235							T0263	RENESAS
NP50P04KDG	-40	-50	0.01		0.015							T0263	RENESAS
UTT50P04	-40	-50	0.016									T0263	UTC
UTT75P04	-40	-75	0.012									T0263	UTC
NP83P04PDG	-40	-83	0.0053		0.008							T0263	RENESAS
NP100P04PDG	-40	-100	0.0035		0.0051							T0263	RENESAS
NP100P04PLG	-40	-100	0.0035		0.0051							T0263	RENESAS
UTT100P04	-40	-100	0.008									T0263	UTC
UTT150P04	-40	-120	0.005									T0263	UTC
IXTA32P05T	-50	-32	0.036				1975	46	26	1.5	83	T0263	lxys
IXTA140P05T	-50	-140	0.008					200	53	0.42	298	T0263	lxys
2SJ603-Z	-60	-25	0.048			0.075						T0263	RENESAS
UTT30P06	-60	-30	0.030									T0263	UTC
NP36P06KDG	-60	-36	0.0295		0.0375							T0263	RENESAS
UTT40P06	-60	-40	0.026									T0263	UTC
2SJ604-Z	-60	-45	0.03			0.043						T0263	RENESAS
NP50P06KDG	-60	-50	0.017		0.023							T0263	RENESAS
UTT60P06	-60	-60	0.016									T0263	UTC
2SJ605-Z	-60	-65	0.02			0.031						T0263	RENESAS
UTT80P06	-60	-80	0.008									T0263	UTC
2SJ606-Z	-60	-83	0.015			0.023						T0263	RENESAS
2SJ607-Z	-60	-83	0.011			0.016						T0263	RENESAS
RJ0601JPE-00	-60	-90	0.011		0.015		8800					T0263	RENESAS
NP83P06PDG	-60	-93	0.0088		0.012							T0263	RENESAS
NP100P06PLG	-60	-100	0.006		0.0078							T0263	RENESAS
NP100P06PDG	-60	-100	0.006		0.0078							T0263	RENESAS
BBS3002	-60	-100	0.0058				13200	280				T0263	SANYO/ONS/ONS
IXTA28P065T	-65	-28	0.045					46	31	1.5	83	T0263	lxys
IXTA120P065T	-65	-120	0.01					185	53	0.42	298	T0263	lxys
SMP3003	-75	-100	0.008				13400	280				T0263	SANYO/ONS/ONS
IXTA24P085T	-85	-24	0.065					41	40	1.5	83	T0263	lxys
IXTA96P085T	-85	-96	0.013					180	55	0.42	298	T0263	lxys
IXTA18P10T	-100	-18	0.12					39	62	1.5	83	T0263	lxys
UTT30P10	-100	-45	0.042		0.050							T0263	UTC
UTT50P10	-100	-50	0.025		0.032							T0263	UTC
IXTA52P10P	-100	-52	0.05				2845	60	120	0.42	300	T0263	lxys
IXTA76P10T	-100	-76	0.024					197	70	0.42	298	T0263	lxys
IXTA36P15P	-150	-36	0.11				3100	55	228	0.42	300	T0263	lxys
IXTA44P15T	-150	-44	0.065					175	140	0.42	298	T0263	lxys
IXTA26P20P	-200	-26	0.17				2740	56	240	0.42	300	T0263	lxys
H5P2501LSTL-E	-250	-10	0.48				1500					T0263	RENESAS
IXTA10P50P	-500	-10	1				2670	50	414	0.5	300	T0263	lxys

T0268

IXTT50P10	-100	-50	0.055					140	180	0.42	300	T0268	lxys
IXTT90P10P	-100	-90	0.025				5800	120	144	0.27	462	T0268	lxys
IXTT24P20	-200	-24	0.15					150	250	0.42	300	T0268	lxys
IXTT48P20P	-200	-48	0.085				5400	103	260	0.27	462	T0268	lxys
IXTT8P50	-500	-8	1.2					130	400	0.65	180	T0268	lxys
IXTT11P50	-500	-11	0.75					130	500	0.42	300	T0268	lxys
IXTT20P50P	-500	-20	0.45				5120	103	406	0.27	460	T0268	lxys
IXTT16P60P	-600	-16	0.72				5120	92	440	0.27	460	T0268	lxys

NP = Automotive AEC-Q101

T0263
D2PAK



MOSFET

T0268



MOSFET

P-Channel

Type No.	Absolute maximum ratings / Electrical characteristics /											Package	Manufacturer
	Ta=25°C												
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc	PD		
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
max			max	max	max								
[V]	[A]	[Ω]	[Ω]	[Ω]	[Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			

TO251

2SJ645-TP	-20	-8			0.072		680	8.7			20	T0251	Sanvo
2SJ325	-30	-4	0.11		0.24							T0251	RENESAS
2SJ646-TP	-30	-8	0.075		0.136						15	T0251	Sanvo
2SJ499-TP	-30	-10	0.045		0.068						30	T0251	Sanvo
2SJ538-TP	-30	-15	0.03		0.052						30	T0251	Sanvo
UTD405	-30	-18	0.018		0.032							T0251	UTC
UT20P03	-30	-19										T0251	UTC
UT30P03	-30	-26										T0251	UTC
UT60P03L	-30	-60	0.012		0.025							T0251	UTC
UT70P03	-30	-75	0.008									T0251	UTC
UT30P04	-40	-21	0.030									T0251	UTC
2SJ634-TP	-60	-8	0.138		0.205						20	T0251	Sanvo
2SJ635-TP	-60	-12	0.06		0.092						30	T0251	Sanvo
H7P0601DL	-60	-20	0.05		0.085		2200				-	T0251	RENESAS
2SJ600	-60	-25	0.05			0.079						T0251	RENESAS
2SJ601	-60	-36	0.031			0.046						T0251	RENESAS
2SJ636-TP	-100	-3	0.535		0.735						15	T0251	Sanvo
2SJ637-TP	-100	-5	0.312		0.45						20	T0251	Sanvo
H7P1002DL	-100	-15	0.105		0.15		2600				-	T0251	RENESAS
UTT25P10	-100	-25	0.045		0.055							T0251	UTC
2SJ319L	-200	-3					330					T0251	RENESAS
2SJ281-TP	-250	-3	2								30	T0251	Sanvo
2SJ130L	-300	-1					235					T0251	RENESAS
2SJ181L	-600	-0.5					220					T0251	RENESAS

TO262

UT60P03L	-30	-60	0.012		0.025							T0262	UTC
UT70P03	-30	-75	0.008									T0262	UTC
2SJ302	-60	-16	0.1			0.24						T0262	RENESAS
2SJ328	-60	-20	0.06			0.11						T0262	RENESAS
2SJ602	-60	-20	0.073			0.107						T0262	RENESAS
2SJ603	-60	-25	0.048			0.075						T0262	RENESAS
2SJ604	-60	-45	0.03			0.043						T0262	RENESAS
2SJ605	-60	-65	0.02			0.031						T0262	RENESAS
2SJ606	-60	-83	0.015			0.023						T0262	RENESAS
2SJ607	-60	-83	0.011			0.016						T0262	RENESAS
UTT25P10	-100	-25	0.045		0.055							T0262	UTC
UTT30P10	-100	-45	0.042		0.050							T0262	UTC
UTT50P10	-100	-50	0.025		0.032							T0262	UTC

TO220

UT60P03L	-30	-60	0.012		0.025							T0220	UTC
UT70P03	-30	-75	0.008									T0220	UTC
UTT50P04	-40	-50	0.016									T0220	UTC
UTT75P04	-40	-75	0.012									T0220	UTC
UTT100P04	-40	-100	0.008									T0220	UTC
UTT150P04	-40	-120	0.005									T0220	UTC
IXTP32P05T	-50	-32	0.036					46	26	1.5	83	T0220	lxys
IXTP140P05T	-50	-140	0.008					200	53	0.42	298	T0220	lxys
2SJ602	-60	-20	0.073			0.107						T0220	RENESAS
2SJ603	-60	-25	0.048			0.075						T0220	RENESAS
UTT30P06	-60	-30	0.030									T0220	UTC
UTT40P06	-60	-40	0.026									T0220	UTC
2SJ604	-60	-45	0.03			0.043						T0220	RENESAS
UTT60P06	-60	-60	0.016									T0220	UTC
2SJ605	-60	-65	0.02			0.031						T0220	RENESAS
UTT80P06	-60	-80	0.008									T0220	UTC
2SJ606	-60	-83	0.015			0.023						T0220	RENESAS
2SJ607	-60	-83	0.011			0.016						T0220	RENESAS
UTT100P06	-60	-100	0.0048									T0220	UTC
IXTP28P065T	-65	-28	0.045					46	31	1.5	83	T0220	lxys
IXTP120P065T	-65	-120	0.01					185	53	0.42	298	T0220	lxys
IXTP24P085T	-85	-24	0.065					41	40	1.5	83	T0220	lxys
IXTP96P085T	-85	-96	0.013					180	55	0.42	298	T0220	lxys
IXTP52P10P	-100	-10	0.05				2845	60	120	0.42	300	T0220	lxys
IXTP18P10T	-100	-18	0.12					39	62	1.5	83	T0220	lxys
UTT25P10	-100	-25	0.045		0.055							T0220	UTC
UTT30P10	-100	-45	0.042		0.050							T0220	UTC
UTT50P10	-100	-50	0.025		0.032							T0220	UTC
IXTP76P10T	-100	-76	0.024					197	70	0.42	298	T0220	lxys
IXTP36P15P	-150	-36	0.11				3100	55	228	0.42	300	T0220	lxys
IXTP44P15T	-150	-44	0.065					175	140	0.42	298	T0220	lxys
IXTP26P20P	-200	-26	0.170				2740	56	240	0.42	300	T0220	lxys
IXTP10P50P	-500	-10	1				2670	50	414	0.5	300	T0220	lxys

TO3P / TO247

UTT75P04	-40	-75	0.012									T0247	UTC
UTT100P04	-40	-100	0.008									T0247	UTC
UTT150P04	-40	-120	0.005									T0247	UTC
IXTH140P05T	-50	-140	0.008					200	53	0.42	298	T0247	lxys
UTT100P06	-60	-100	0.0048									T0247	UTC
IXTH120P065T	-65	-120	0.01					185	53	0.42	298	T0247	lxys
IXTH50P085	-85	-50	0.055					150	180	0.42	300	T0247	lxys
IXTH96P085T	-85	-96	0.013					180	55	0.42	298	T0247	lxys
IXTQ52P10P	-100	-10	0.05				2845	60	120	0.42	300	T03P	lxys
IXTH36P10	-100	-36	0.075					95	180	0.65	180	T0247	lxys
IXTH50P10	-100	-50	0.055					140	180	0.42	300	T0247	lxys
IXTH52P10P	-100	-52	0.05				2845	60	120	0.42	300	T0247	lxys
IXTH76P10T	-100	-76	0.024					197	70	0.42	298	T0247	lxys
IXTH90P10P	-100	-90	0.025				5800	120	144	0.27	462	T0247	lxys
IXTQ36P15P	-150	-36	0.11				3100	55	228	0.42	300	T03P	lxys
IXTQ44P15T	-150	-44	0.065					175	140	0.42	298	T03P	lxys
IXTH44P15T	-150	-44	0.065					175	140	0.42	298	T0247	lxys

NP = Automotive AEC-Q101



TO251
IPAK

TO262
I2PAK

TO 220

TO247

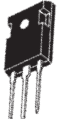
MOSFET

P-Channel

Type No.	Absolute maximum ratings / Electrical characteristics /											Package	Manufacturer
	Ta=25°C												
	VDSS	ID	RDS(on) Ω @				Ciss	Qg	trr	Rthjc	PD		
			VGS = 10V	VGS = 5V	VGS = 4.5V	VGS = 4.0V							
max			max	max	max								
[V]	[A]	[Ω]	[Ω]	[Ω]	[Ω]	[pF]	[nC]	[ns]	[°C/W]	[W]			
IXTH16P20	-200	-16	0.16				95	180	0.42	300	T0247	lxys	
IXTH24P20	-200	-24	0.15				150	250	0.42	300	T0247	lxys	
IXTQ26P20P	-200	-26	0.17			2740	56	240	0.42	300	T03P	lxys	
IXTH48P20P	-200	-48	0.085			5400	103	260	0.27	462	T0247	lxys	
IXTH8P50	-500	-8	2.2				130	400	0.65	180	T0247	lxys	
IXTQ10P50P	-500	-10	1			2670	50	414	0.5	300	T03P	lxys	
IXTH10P50P	-500	-10	1			2670	50	414	0.5	300	T0247	lxys	
IXTH11P50	-500	-11	0.75				130	500	0.42	300	T0247	lxys	
IXTH20P50P	-500	-20	0.45			5120	103	406	0.27	460	T0247	lxys	
IXTH10P60	-600	-10	1				160	500	0.42	300	T0247	lxys	
IXTH16P60P	-600	-16	0.72			5120	92	440	0.27	460	T0247	lxys	
Plus247													
IXTX170P10P	-100	-170	0.12			12600	240	176	0.14	890	Plus247	lxys	
IXTX90P20P	-200	-90	0.044			12000	205	315	0.14	890	Plus247	lxys	
IXTX40P50P	-500	-40	0.23			11500	205	477	0.14	890	Plus247	lxys	
IXTX32P60P	-600	-18	0.35			11100	196	480	0.14	890	Plus247	lxys	
T0264													
IXTX170P10P	-100	-170	0.12			12600	240	176	0.14	890	T0264	lxys	
IXTX90P20P	-200	-90	0.044			12000	205	315	0.14	890	T0264	lxys	
IXTX40P50P	-500	-40	0.23			11500	205	477	0.14	890	T0264	lxys	
IXTX32P60P	-600	-32	0.35			11100	196	480	0.14	890	T0264	lxys	
SOT227B													
IXTN170P10P	-100	-170	0.12			12600	240	176	0.14	890	SOT227B	lxys	
IXTN90P20P	-200	-90	0.044			12000	205	315	0.14	890	SOT227B	lxys	
IXTN40P50P	-500	-40	0.23			11500	205	477	0.14	890	SOT227B	lxys	
IXTN32P60P	-600	-32	0.35			11100	196	480	0.14	890	SOT227B	lxys	
T0220iso													
2S.J494	-60	-20	0.05				0.088				T0220 iso	RENESAS	
2S.J649	-60	-20	0.048				0.075				T0220 iso	RENESAS	
RJJ0621DPP-00	-60	-25	0.056		0.095	1550				35	T0220 iso	RENESAS	
2S.J673	-60	-36	0.02				0.031				T0220 iso	RENESAS	
2S.J448	-250	-4	2								T0220 iso	RENESAS	
Isoplus220													
IXTC36P15P	-150	-22	0.12			2950	55	150	1	150	Isoplus220	lxys	
Isoplus247													
IXTR90P10P	-100	-57	0.027			5800	120	144	0.66	190	Isoplus247	lxys	
IXTR170P10P	-100	-108	0.013			12600	240	176	0.4	312	Isoplus247	lxys	
IXTR36P15	-150	-22	0.12			2950	55	150	1	150	Isoplus248	lxys	
IXTR48P20P	-200	-30	0.093			5400	103	260	0.66	190	Isoplus247	lxys	
IXTR90P20P	-200	-53	0.048			12000	205	315	0.4	312	Isoplus247	lxys	
IXTR20P50P	-500	-13	0.49			5120	103	406	0.66	190	Isoplus247	lxys	
IXTR40P50P	-500	-22	0.26			11500	205	477	0.4	312	Isoplus247	lxys	
IXTR16P60P	-600	-10	0.79			5120	92	440	0.66	190	Isoplus247	lxys	
IXTR32P60P	-600	-18	0.385			11100	196	480	0.4	310	Isoplus247	lxys	

NP = Automotive AEC-Q101

T0247



PLUS247



T0264



MOSFET

Isoplus 220



ISOPLUS247



MOSFET

Linear

Type No.	VDSS	ID(cont)	RDS(on)	Ciss	Qg	trr	RthJC	PD	PackageStyle	Manufacturer
	(V)	(A)	VGS = 10V (Ω)	(pF)	(nC)	(ns)	(°C/W)	(W)		

T0263

IXTA15N50L2	500	15	0.480	4080	123	570	0.42	300	T0263	lxys
-------------	-----	----	-------	------	-----	-----	------	-----	-------	------

T0268

IXTT30N50L2	500	30	0.200	8100	240	500	0.31	400	T0268	lxys
IXTT30N50L	500	30	0.20	10200	240	500	0.31	400	T0268	lxys
IXTT40N50L2	500	40	0.17	10400	320	500	0.23	540	T0268	lxys
IXTT30N60L2	600	30	0.24	10700	335	710	0.23	540	T0268	lxys

T0220

IXTP15N50L2	500	15	0.480	4080	123	570	0.42	300	T0220	lxys
-------------	-----	----	-------	------	-----	-----	------	-----	-------	------

T03P / T0247

IXTH15N50L2	500	15	0.480	4080	123	570	0.25	300	T0247	lxys
IXTH24N50L	500	24	0.3	2500	160	500	0.31	400	T0247	lxys
IXTH30N50L2	500	30	0.200	8100	240	500	0.31	400	T0247	lxys
IXTQ30N50L2	500	30	0.200	8100	240	500	0.31	400	T03P	lxys
IXTH30N50L	500	30	0.20	10200	240	500	0.31	400	T0247	lxys
IXTQ30N50L	500	30	0.20	10200	240	500	0.31	400	T03P	lxys
IXTH40N50L2	500	40	0.17	10400	320	500	0.23	540	T0247	lxys
IXTQ40N50L2	500	40	0.17	10400	320	500	0.23	540	T03P	lxys
IXTH30N60L2	600	30	0.24	10700	335	710	0.23	540	T0247	lxys
IXTQ30N60L2	600	30	0.24	10700	335	710	0.23	540	T03P	lxys
IXTH12N100L	1000	12	1.3	2500	155	1000	0.31	400	T0247	lxys

Plus247

IXTX90N25L2	250	90	0.033	23000	640	266	0.13	960	Plus247	lxys
IXTX46N50L	500	46	0.16	7000	260	600	0.18	700	Plus247	lxys
IXTX60N50L2	500	60	0.10	24000	610	980	0.13	960	Plus247	lxys
IXTB62N50L	500	62	0.1	11500	550	500	0.156	800	Plus247	lxys
IXTX22N100L	1000	22	0.6	7050	270	1000	0.18	700	Plus247	lxys
IXTB30N100L	1000	30	0.45	13200	545	1000	0.156	800	Plus247	lxys
IXTX17N120L	1200	17	0.90	8300	155	1830	0.18	700	Plus247	lxys
IXTX8N150L	1500	8	3.6	8000	250	1700	0.18	700	Plus247	lxys

T0264

IXTK90N25L2	250	90	0.033	23000	640	266	0.13	960	T0264	lxys
IXTK46N50L	500	46	0.16	7000	260	600	0.18	700	T0264	lxys
IXTK60N50L2	500	60	0.10	24000	610	980	0.13	960	T0264	lxys
IXTK22N100L	1000	22	0.6	7050	270	1000	0.18	700	T0264	lxys
IXTK17N120L	1200	17	0.90	8300	155	1830	0.18	700	T0264	lxys
IXTK8N150L	1500	8	3.6	8000	250	1700	0.18	700	T0264	lxys

S0T227B

IXTN90N25L2	250	90	0.033	23000	640	266	0.17	735	S0T227B	lxys
IXTN46N50L	500	46	0.16	7000	260	600	0.18	700	S0T227B	lxys
IXTN60N50L2	500	53	0.10	24000	610	980	0.17	735	S0T227B	lxys
IXTN62N50L	500	62	0.1	11500	550	500	0.156	800	S0T227B	lxys
IXTN22N100L	1000	24	0.6	7050	270	1000	0.18	700	S0T227B	lxys
IXTN30N100L	1000	30	0.45	13700	545	1000	0.156	800	S0T227B	lxys
IXTN17N120L	1200	15	0.90	8300	155	1830	0.23	540	S0T227B	lxys
IXTN8N150L	1500	7.5	3.6	8000	250	1700	0.23	545	S0T227B	lxys

NP = Automotive AEC-Q101

Depletion

Type No.	VDSS	ID(cont)	RDS(on)	VGS(off)	Ciss	Crss	Qg	PD	PackageStyle	Manufacturer
	max	TC=25°C	VGS=10V	max	typ	typ	typ			
	(V)	(A)	(Ω)	(V)	(pF)	(pF)	(nC)	(W)		

T0252

IXTY02N50D	500	0,2	30	-5	120	5	5	25	T0252	lxys
IXTY01N100D	1000	0,1	110	-5	120	3	5	25	T0252	lxys

T0268

IXTT20N50D	500	20	0,33	-3,5	2500	100	0,31	400	T0268	lxys
IXTT10N100D	1000	10	1,4	-35,000	2500	90	0,31	400	T0268	lxys

T0251

IXTU02N50D	500	0,2	30	-5	120	5	5	25	T0251	lxys
IXTU01N100D	1000	0,1	110	-5	120	3	5	25	T0251	lxys

T0220

IXTP02N50D	500	0,2	30	-5	120	5	5	25	T0220	lxys
IXTP01N100D	1000	0,1	110	-5	120	3	5	25	T0220	lxys

T0247

IXTH20N50D	500	20	0,33	-3,5	2500	100	0,31	400	T0247	lxys
IXTH10N100D	1000	10	1,4	-3,500	2500	90	0,31	400	T0247	lxys

NP = Automotive AEC-Q101

T0 220



T0247



MOSFET

PLUS247



T0264



S0T227

miniBLOC



T0252

PAK



T0268



T0251

IPAK



MOSFET

Protected N-Channel / Low Side

Type No.	CHANNEL	VCC	I _{out}	RDS(on)	td(on)	tr	td(off)	tf	PD (W)	PackageStyle	Manufacturer
		[V]	[A]	VGS=10V (Ω)	typ [μs]	typ [μs]	typ [μs]	typ [μs]			
S08											
uPD166100GR	1	40	0,8	0,160	120	80	200	80	1,5	S08	NEC
uPD166101GR	2	40	0,8	0,160	120	80	200	80	2,0	S08	NEC
HAF2026RJ	1	60	0,6	0,300	2,9	11	0,9	1	1,5	S08	Renesas
HAF2015RJ	1	60	2	0,200	4,2	20	1,0	2	2,0	S08	Renesas
S020											
uPD166104 *	2	18	1,4	0,091	35	35	30	15	2,5	S020	NEC
T0252											
HAF2007(S) *	1	60	5	0,075	2,8	12,4	15	11	20	T0252	Renesas
T0263											
HAF2012(S) *	1	60	20	0,043	7,5	29	34	26	50	T0263	Renesas
HAF2017(S) *	1	60	20	0,053	8,7	44,6	2	2,6	50	T0263	Renesas
HAF2011(S) *	1	60	40	0,020	10,7	66	15,5	19	50	T0263	Renesas
HAF2021(S) *	1	60	50	0,012	20	75	3	2,6	50	T0263	Renesas
T0251											
HAF2007(L) *	1	60	5	0,075	2,8	12,4	15	11	20	T0251	Renesas
T0262											
HAF2012(L) *	1	60	20	0,043	7,5	29	34	26	50	T0262	Renesas
HAF2017(L) *	1	60	20	0,053	8,7	44,6	2	2,6	50	T0262	Renesas
HAF2011(L) *	1	60	40	0,020	10,7	66	15,5	19	50	T0262	Renesas
HAF2021(L) *	1	60	50	0,012	20	75	3	2,6	50	T0262	Renesas
T0220											
HAF2001 *	1	60	20	0,043	7,5	29	34	26	50	T0220	Renesas
HAF2014 *	1	60	40	0,020	10,7	66	15,5	19	50	T0220	Renesas
T0220 iso											
HAF2002 *	1	60	20	0,043	7,5	29	34	26	50	T0220 iso	Renesas
HAF2005 *	1	60	40	0,020	10,7	66	15,5	19	50	T0220 iso	Renesas

* Logic Level device NP = Automotive AEC-Q101

Protected P-Channel / High Side

Type No.	CHANNEL	VCC	ID(cont)	RDS(on)	td(on)	tr	td(off)	tf	PD (W)	PackageStyle	Manufacturer
		(V)	(A)	VGS = 10V (Ω)	typ. [μs]	typ. [μs]	typ. [μs]	typ. [μs]			
S08											
HAF1010RJ *	1	60	5	0,200	2	7,6	3,2	3,2	2,5	S08	Renesas
T0263											
HAF1002S *	1	60	15	0,090	7,5	36	32	29	50	T0263	Renesas
HAF1004S *	1	60	5	0,020	2	7,6	3,2	3,2	50	T0263	Renesas
HAF1008S *	1	60	20	0,054	5,7	26	6,5	9	50	T0263	Renesas
HAF1009S *	1	60	40	0,027	10,6	45	12	13	50	T0263	Renesas
T0262											
HAF1002L *	1	60	15	0,090	7,5	36	32	29	50	T0262	Renesas
HAF1004L *	1	60	5	0,020	2	7,6	3,2	3,2	50	T0262	Renesas
HAF1008L *	1	60	20	0,054	5,7	26	6,5	9	50	T0262	Renesas
HAF1009L *	1	60	40	0,027	10,6	45	12	13	50	T0262	Renesas
T0220											
HAF1001 *	1	60	15	0,090	7,5	36	32	29	50	T0220	Renesas

* Logic Level device NP = Automotive AEC-Q101

Protected, N-Channel with Charge Pump / High Side

Type No.	CHANNEL	VCC	I _{out}	RDS(on)	td(on)	tr	td(off)	tf	PD (W)	PackageStyle	Manufacturer
		[V]	[A]	VGS=10V (Ω)	typ [μs]	typ [μs]	typ [μs]	typ [μs]			
S08											
uPD166005 1)	1	16	1,5	0,100	33	70		20	2	S08	NEC
T0252											
uPD166007T1F	1	28	30	0,010	200	250	150	100	59	T0252-5	NEC
uPD166009 1)	1	28	30	0,010	200	150	150	100	59	T0252-5	NEC
uPD166010 1)	1	28	30	0,010	200	150	150	100	59	T0252-5	NEC
SOP12											
uPD166011 1)	2	28	5,5	0,085	120	120	135		2	SOP12	NEC
uPD166013 1)	2	28	4	0,060		120	135		2	SOP12	NEC
SOP24											
uPD166014 1)	4	28	4	0,060		120	135			SOP24	NEC

1) New products, all datas are preliminary, please refer to the datasheet! NP = Automotive AEC-Q101



S08

T0252
5pin



T0251
IPAK



MOSFET

T0262
I2PAK



T0220



T0220 iso



T0263-5



MOSFET Modules

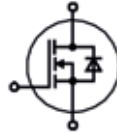
Type No.	V_{DS}	I_{D25}	I_{D80}	$R_{DS(on)}$	t_f	t_r	R_{thJC}	Configuration	PackageStyle	Manufacturer
	max	$T_c=25^\circ C$	$T_c=80^\circ C$	max	typ	typ	max			
	(V)	(A)	(A)	$T_j=25^\circ C$ (mOhms)	(ns)	(ns)	(K/W)			
VM0550-01F	100	590	440	2.1	200	500	0.057	Single	Y3-DCB (w/o terminal 3)	IXYS
VM0650-01F	100	690	520	1.8	200	500	0.048	Single	Y3-DCB (w/o terminal 3)	IXYS
VM01200-01F	100	1220	970	1.25	1020	1620	0.053	Single	Y3-Li (w/o terminal 1, low inductance)	IXYS
VM0580-02F	200	580	430	3.8	350	500	0.050	Single	Y3-Li (w/o terminal 1, low inductance)	IXYS
VM01600-02P	200	1900	1600	1.7	700	1220	0.030	Single	Y3-Li (w/o terminal 1, low inductance)	IXYS
VM060-05F	500	60	37	75	30	45	0.210	Single	TO 240AA	IXYS



ECO-PAC2



TO-240 AA



VM0
Single
Switch



Y3



Y3

Features:

- V_{DS} : 100V - 500V, $I_{D(25)}$: 41A - 1245A
- Extremely Low $R_{DS(on)}$: 1.35 mOhms
- Fast intrinsic diode, dv/dt ruggedness
- low inductive current path
- Kelvin source terminals for easy drive
- 2500 V_{rms} Isolation with ceramic base plate

Dual Switch Common Source

Type No.	V_{DS}	I_{D25}	I_{D80}	I_{D90}	$R_{DS(on)}$	t_f	t_r	R_{thJC}	Ckt Diag	PackageStyle	Manufacturer
	max	$T_c=25^\circ C$	$T_c=80^\circ C$	$T_c=90^\circ C$	max	typ	typ	max			
	(V)	(A)	(A)	(A)	$T_j=25^\circ C$ (mOhms)	(ns)	(ns)	(K/W)			
VMK165-007T	70	165	-	-	7	110	280	0.32	VMK/FMK	TO-240 AA (+ Kelvin contact)	IXYS
FMK75-01F	100	75	-	50	21	60	60	0.5	VMK/FMK	ISOPLUS i4-PAC™ (5 - Lead)	IXYS
VMK90-02T2	200	83	62	-	25	100	80	0.33	VMK/FMK	TO-240 AA (+ Kelvin)	IXYS



ISOPLUS i4-PAC™



TO-240 AA



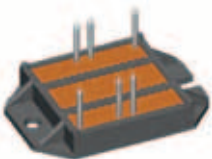
VMK
Dual Switch

Features:

- V_{DS} : 70V - 200V, $I_{D(25)}$: 84A - 165A
- Very Low $R_{DS(on)}$: 6.0 mOhms
- Fast intrinsic diode, dv/dt ruggedness
- low inductive current path
- Kelvin source terminals for easy drive
- 2500 V_{rms} Isolation with ceramic base plate

Phase leg

Type No.	V_{DS}	I_{D25}	$R_{DS(on)}$	C_{iss}	Q_g	t_f	t_r	R_{thJC}	Configuration	Ckt Diag	PackageStyle	Manufacturer
	max	$T_c=25^\circ C$	max	typ	typ	typ	typ	max				
	(V)	(A)	$T_j=25^\circ C$ (Ohms)	(pF)	(nC)	(ns)	(ns)	(C/W)				
FMP26-02P	-200	-17	0.17	2740	56	21	33	1	Phase Leg		ISOPLUS i4-Pak	IXYS
FMP36-015P	-150	-22	110			15	31	1	Phase Leg		ISOPLUS i4-Pak	IXYS
FMP76-010T	-100	-54	24			20	40	0.95	Phase Leg		ISOPLUS i4-Pak	IXYS
FMM150-0075X2F	75	120	0.0058	10500	178	15	18	0.88	Phase Leg		ISOPLUS i4-Pak	IXYS
FMM75-01F	100	75	25	-	180	60	60	0.5	Phase Leg	FMM...	ISOPLUS i4-PAC™ (5 - Lead)	IXYS
VMM650-01F	100	680	2.2	-	1440	200	250	0.08	Phase Leg	VMM...	Y3-Li (low inductance)	IXYS
FMM60-02TF	200	33	40			42	46	1	Phase Leg		ISOPLUS i4-Pak	IXYS
VMM45-02F	200	45	45	4800	190	45	45	0.63	Phase Leg	VMM...	TO-240 AA (+ Kelvin contact)	IXYS
VMM85-02F	200	84	25	9600	380	100	80	0.33	Phase Leg	VMM...	Y4-M5	IXYS
FMM50-025TF	250	30	50			25	25	1	Phase Leg		ISOPLUS i4-Pak	IXYS
VMM300-03F	300	290	8.6	40000	1440	150	400	0.08	Phase Leg	VMM...	Y3-DCB	IXYS
FMM22-05PF	500	13	270			21	25	0.95	Phase Leg		ISOPLUS i4-Pak	IXYS
FMM22-06PF	600	12	350			23	20	0.95	Phase Leg		ISOPLUS i4-Pak	IXYS
VMM90-09F	900	85	76	-	960	140	180	0.08	Phase Leg	VMM...	Y3-Li (low inductance)	IXYS



ECO-PAC2



TO-240 AA



Y4-M5



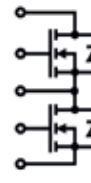
Y3



Y3



VMM
phase leg



FMM
phase leg

Features:

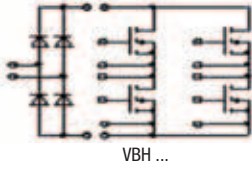
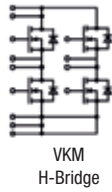
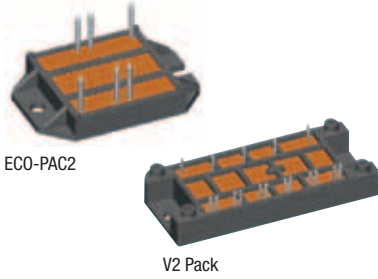
- V_{DS} : 75V - 900V, $I_{D(25)}$: 45A - 1500A
- Extremely Low $R_{DS(on)}$: 1.8 mOhms
- dv/dt ruggedness. Fast reverse diode
- low inductive current path
- Kelvin source terminals for easy drive
- 2500 V_{rms} Isolation with ceramic base plate

MOSFET

MOSFET Modules

Full-Bridge

Type No.	V_{DSS}		I_{D25}		I_{D80}		I_{D90}		$R_{DS(on)max}$ T _J =25°C (mOhms)	t_r typ (ns)	t_f typ (ns)	$R_{\theta J-C}$ max (K/W)	Configuration	Ckt Diag	PackageStyle	Manufacturer
	max	Tc=25°C	Tc=80°C	Tc=90°C												
	(V)	(A)	(A)	(A)												
VKM60-01P1	100	75	-	-	25	60	60	0.5	Full Bridge	VKM...	ECO-PAC 2	IXYS				
VBH40-05B	500	45	33	-	116	80	100	0.32		VBH...	V2-Pack	IXYS				
VHM40-06P1	600	38	-	25	70	10	95	0.45	Full Bridge	VHM...	ECO-PAC 2	IXYS				
VKM40-06P1	600	38	25	25	70	10	95	0.45	Full Bridge	VKM...	ECO-PAC	IXYS				



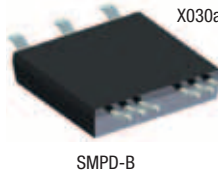
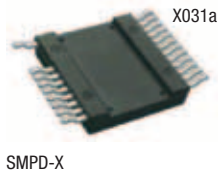
Features:

- V_{DSS}: 100V - 600V, I_D(25): 38A - 63A
- Low R_{DS(on)}: 25.0 mOhms
- dv/dt ruggedness. Fast reverse diode
- low inductive current path
- Kelvin source terminals for easy drive
- Isolated ceramic base plate with 2500 V rms isolation

ISOPLUS-SMPD™

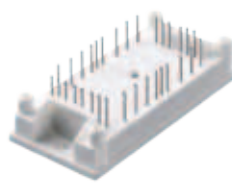
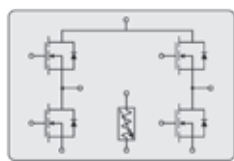
Type No.	Configuration	Circuit diagram/ Technology	V_{DSS}		I_{D25}		$R_{DS(on)typ.}$		NTC	Fig. No.	Circuit Diagram	Manufacturer
			V	A	TC = 25°C	TC = 25°C						
					A	mΩ						
MMIX 1T600N04T2*	single	A Trench2	40	600	1.3				X031a	NTC not shown	IXYS	
MMIX 1T550N05T2**	single	A Trench2	55	550	1.3						IXYS	
MMIX 1F520N075T2*	single	A Trench2 HiPerFET	75	500	1.6						IXYS	
MKE 38RK600DFELB*	buck/boost	C CoolMOS™ & FRED	600	50	40				X030a		IXYS	
MKE 38P600LB*	phase-leg	B CoolMOS™		50	40						IXYS	
MKE 38P600TLB**	phase-leg	B CoolMOS™		50	40						IXYS	

*New
**Under development
CoolMOS™ is a trademark of Infineon Technologies



Full-Bridge

Type No.	V_{CES}		I_c	Type	$R_{DS(on)}$	E_{on} typ	E_{off} typ	$R_{\theta J-C}$ max	Package	Manufacturer
	V	A								
LEF45M505	500	45	505	MOSFET Tech	0.347	TBD	TBD	0.33	SISPM1	LSIS
LEF60M505	500	60	505		0.219	TBD	TBD	0.253	SISPM1	LSIS
LEF30M905	900	30	905		1.05	TBD	TBD	0.28	SISPM1	LSIS
LEF45M50T	500	45	50T		TBD	TBD	TBD	TBD	SISPM1	LSIS
LEF60M50T	500	60	50T		TBD	TBD	TBD	TBD	SISPM1	LSIS
LEF30M90T	900	30	90T		TBD	TBD	TBD	TBD	SISPM1	LSIS



Full Bridge Modules Topology

SISPM1

Features:

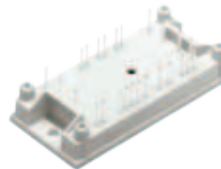
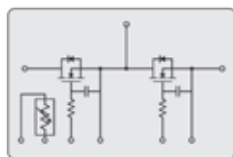
- Full Bridge Configuration
- Latest MOSFET Technology
- included Temp. Sensor

Application:

- SMPS
- UPS
- Welding machine

Half-Bridge

Type No.	V_{CES}		I_c	Type	$R_{DS(on)}$	E_{on} typ	E_{off} typ	$R_{\theta J-C}$ max	Package	Manufacturer
	V	A								
LEH400M076	75	400	76	MOSFET Tech	0.75	TBD	TBD	0.07	SISPM1	LSIS
LEH400M106	100	400	106		1.1	TBD	TBD	0.07	SISPM2	LSIS
LEH200M156	150	200	156		1.4	TBD	TBD	0.07	SISPM3	LSIS



Half Bridge Modules Topology

SISPM1

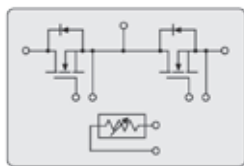
Features:

- Half Bridge Configuration
- Latest MOSFET technology
- Included Temperature Sensor

MOSFET Modules

Half-Bridge

Type No.	V _{CES}	I _C	Type	R _{DS(on)}	E _{on} typ	E _{off} typ	R _{thJC} max	Package	Manufacturer
	V	A	MOSFET Tech	mΩ	mJ	mJ	°C/W		
LMH900M076	75	900	76	0.375	TBD	TBD	0.04	EFPM1	LSIS
LMH800M106	100	800	106	0.55	TBD	TBD	0.04	EFPM1	LSIS
LMH500M156	150	500	156	1.2	TBD	TBD	0.04	EFPM1	LSIS



EFPM™ Topology



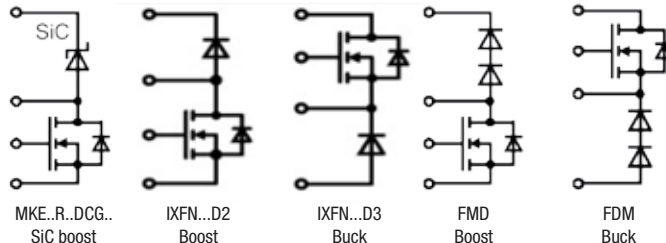
EFPM1 – Available soon

Features:

- Low loss & high ruggedness MOSFET
- Low R_{DS(ON)}
- Enhanced Body Diode dv/dt, di/dt capability
- Improved gate, avalanche, dynamic dv/dt ruggedness
- Half Bridge Configuration
- Insulated Package without copper base plate
- Fully characterized capacitance & avalanche SOA
- Included Temp. Sensor

Boost and Buck Configurations

Type No.	VDSS	ID25	ID90	RDS(on)	t _f	t _r	R _{thJC}	Configuration	PackageStyle	Manufacturer
	max	T _c =25°C	T _c =90°C	max	typ	typ	max			
	(V)	(A)	(A)	T _j =25°C (mOhms)	(ns)	(ns)	(K/W)			
IXFN100N10S1	100	100	75	12	30	70	0.35	Copack (FRD)	SOT-227B	IXYS
IXFN100N10S2	100	100	75	12	30	70	0.35	Boost	SOT-227B	IXYS
IXFN100N10S3	100	100	75	12	30	70	0.35	Buck	SOT-227B	IXYS
FMD21-05QC	500	21	15	220	15	20	0.5	Boost	ISOPLUS i4-PAC™	IXYS
IXFE44N50QD2	500	39	29	120	10	22	0.31	Boost	ISOPLUS227™	IXYS
IXFE44N50QD3	500	39	29	120	10	22	0.31	Buck	ISOPLUS227™	IXYS
IXFE48N50QD2	500	41	31	110	10	22	0.31	Boost	ISOPLUS227™	IXYS
IXFE48N50QD3	500	41	31	110	10	22	0.31	Buck	ISOPLUS227™	IXYS
IXFN44N50U2	500	44	33	120	30	60	0.24	Boost	SOT-227B	IXYS
IXFN44N50U3	500	44	33	120	30	60	0.24	Buck	SOT-227B	IXYS
IXFN48N50U2	500	48	36	100	30	60	0.24	Boost	SOT-227B	IXYS
IXFN48N50U3	500	48	36	100	30	60	0.24	Buck	SOT-227B	IXYS
IXFN64N50PD2	500	50		0.085	22	25	0.2	Boost	SOT-227B	IXYS
IXFN64N50PD3	500	50		0.085	22	25	0.2	Boost	SOT-227B	IXYS
FDM15-06KC5	600	15	11	165	5	5	1.1	Buck	ISOPLUS i4-PAC™	IXYS
FMD15-06KC5	600	15	11	165	5	5	1.1	Boost	ISOPLUS i4-PAC™	IXYS
MKE11R600DCGFC	600	15	11	165	4	6	1.1	Boost with SiC Diode	ISOPLUS i4-PAC™	IXYS
FMD40-06KC	600	38	25	70	10	30	0.45	Boost	ISOPLUS i4-PAC™	IXYS
FDM47-06KC5	600	47	32	45	10	20	0.45	Buck	ISOPLUS i4-PAC™	IXYS
FMD47-06KC5	600	47	32	45	10	20	0.45	Boost	ISOPLUS i4-PAC™	IXYS

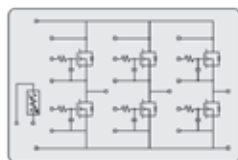


Features:

- V_{dss}: 45V - 600V, I_d(25): 21A - 150A
- Very Low R_{ds(on)}: 3.8 mOhms
- dv/dt ruggedness. Fast reverse diode
- low inductive current path
- Kelvin source terminals for easy drive
- 2500 V rms Isolation with ceramic base plate

Six Pack

Type No.	VCES	IC	Type	Frequency	RDS(on)	Eon typ	Eoff typ	R _{thJC} max	Package	Manufacturer
	V	A	MOSFET Tech	≤ kHz	mΩ	mJ	mJ	°C/W		
LNI650M076	75	650	76	10	0.5	TBD	TBD	0.047	EFPM2	LSIS
LNI600M106	100	600	106	10	0.73	TBD	TBD	0.047	EFPM2	LSIS
LNI300M156	150	350	156	10	1.6	TBD	TBD	0.047	EFPM2	LSIS



EFPM™2 Topology – MOSFET



EFPM2 – Available soon

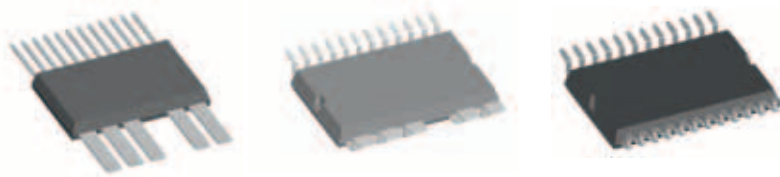
Features:

- Low loss & high ruggedness MOSFET
- Low R_{DS(ON)}
- Enhanced Body Diode dv/dt, di/dt capability
- Improved gate, avalanche, dynamic dv/dt ruggedness
- **6-pack configuration**
- Insulated Package without copper base plate
- Fully characterized capacitance & avalanche SOA
- Included Temp. Sensor

MOSFET Modules

Trench Gate with lower $R_{DS(on)}$

Type No.	VDSS	ID25	ID80	ID90	RDS(on)	tf	tr	RthJC	Configuration	Ckt Diag	PackageStyle
	max	Tc=25°C	Tc=80°C	Tc=90°C	max	typ	typ	max			
	(V)	(A)	(A)	(A)	Tj=25°C (mOhms)	(ns)	(ns)	(K/W)			
GWM180-004X2-SL	40	180	-	136	2.5	170	240	1	Six Pack	GWM/VWM	ISOPLUS-DIL™
GWM180-004X2-SMD	40	180	-	136	2.5	170	240	1	Six Pack	GWM/VWM	ISOPLUS-DIL™
GMM3x180-004X2-SMD	40	180	-	136	2.5	170	240	1	Triple phase leg	GMM...	ISOPLUS-DIL™
GWM160-0055X1-SL	55	150	-	115	3.3	120	125	1	Six Pack	GWM/VWM	ISOPLUS-DIL™
GWM160-0055X1-SMD	55	150	-	115	3.3	120	125	1	Six Pack	GWM/VWM	ISOPLUS-DIL™
GMM3x160-0055X2-SMD	55	150	-	115	3.1	100	110	1	Triple phase leg	GMM...	ISOPLUS-DIL™
GWM120-0075X1-SL	75	110	-	85	4.9	100	100	1	Six Pack	GWM/VWM	ISOPLUS-DIL™
GWM120-0075X1-SMD	75	110	-	85	4.9	100	100	1	Six Pack	GWM/VWM	ISOPLUS-DIL™
GMM3x120-0075X2-SMD	75	110	-	85	4.9	100	100	1	Triple phase leg	GMM...	ISOPLUS-DIL™
VWM270-0075X2	75	270	215	-	2.1	15	20	0.44	Six Pack	GWM/VWM	V2-Pack
VMM1500-0075X2	75	1560	1240	-	0.38	880	1680	0.08	Phase Leg	VMM...	Y3-Li (low inductance)
GWM100-0085X1-SL	85	103	-	77	6.2	-	-	1	Six Pack	GWM/VWM	ISOPLUS-DIL™
GWM100-0085X1-SMD	85	103	-	77	6.2	-	-	1	Six Pack	GWM/VWM	ISOPLUS-DIL™
GWM100-01X1-SL	100	90	-	68	8.5	55	95	1	Six Pack	GWM/VWM	ISOPLUS-DIL™
GWM100-01X1-SMD	100	90	-	68	8.5	55	95	1	Six Pack	GWM/VWM	ISOPLUS-DIL™
GMM3x100-01X1-SMD	100	90	-	68	8.5	55	95	1	Triple phase leg	GMM...	ISOPLUS-DIL™
FMM110-015X2F	150	53	-	-	20	18	16	0.83	Phase Leg	FMM...	ISOPLUS i4-PAC™
GMM3x60-015X2-SMD	150	57	-	45	22	-	-	1	Triple phase leg	GMM...	ISOPLUS-DIL



ISOPLUS DIL™
GWM... SL version

ISOPLUS DIL™
GWM... SMD version

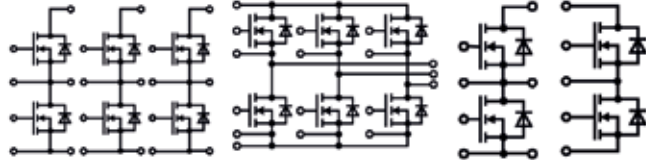
ISOPLUS DIL™
GMM... SMD version



V2-Pack



Y3-Li



GMM
Six-Pack
Triple phase leg

GWM / VWM
Six-Pack
Triple phase leg

VMM
Phase
Leg

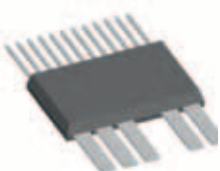
FMM
Phase
Leg

Features:

- V_{dss}: 40V to 150V, I_{d(25)}: up to 1500A
- Very low $R_{DS(on)}$
- optimized fast intrinsic reverse diode
- T_{vj} max: 175°C
- Kelvin source terminals for easy drive
- min. 1000 V rms Isolation with ceramic base plate (depending on package)

ISOPLUS-DIL™ Trench

Type No.	VDSS	ID25	ID90	RDS(on)	tf	tr	RthJC	Configuration	Ckt Diag	PackageStyle	Manufacturer
	max	Tc=25°C	Tc=90°C	max	typ	typ	max				
	(V)	(A)	(A)	Tj=25°C (mOhms)	(ns)	(ns)	(K/W)				
GMM3x60-015X2-SMD	150	57	45	22	-	-	1	Triple phase leg	GMM	ISOPLUS-DIL™	IXYS
GMM3x100-01X1-SMD	100	90	68	8.5	55	95	1	Triple phase leg	GMM	ISOPLUS-DIL™	IXYS
GWM100-01X1-SL	100	90	68	max	55	95	1	Six Pack	GWM	ISOPLUS-DIL™	IXYS
GWM100-01X1-SMD	100	90	68	8.5	55	95	1	Six Pack	GWM	ISOPLUS-DIL™	IXYS
GWM100-0085X1-SL	85	103	77	6.2	-	-	1	Six Pack	GWM	ISOPLUS-DIL™	IXYS
GWM100-0085X1-SMD	85	103	77	6.2	-	-	1	Six Pack	GWM	ISOPLUS-DIL™	IXYS
GMM3x120-0075X2-SMD	75	110	85	4.9	100	100	1	Triple phase leg	GMM	ISOPLUS-DIL™	IXYS
GWM120-0075X1-SL	75	110	85	4.9	100	100	1	Six Pack	GWM	ISOPLUS-DIL™	IXYS
GWM120-0075X1-SMD	75	110	85	4.9	100	100	1	Six Pack	GWM	ISOPLUS-DIL™	IXYS
GMM3x160-0055X2-SMD	55	150	115	3.1	100	110	1	Triple phase leg	GMM	ISOPLUS-DIL™	IXYS
GWM160-0055X1-SL	55	150	115	3.3	120	125	1	Six Pack	GWM	ISOPLUS-DIL™	IXYS
GWM160-0055X1-SMD	55	150	115	3.3	120	125	1	Six Pack	GWM	ISOPLUS-DIL™	IXYS
GMM3x180-004X2-SMD	40	180	136	2.5	170	240	1	Triple phase leg	GMM	ISOPLUS-DIL™	IXYS
GWM180-004X2-SL	40	180	136	2.5	170	240	1	Six Pack	GWM	ISOPLUS-DIL™	IXYS
GWM180-004X2-SMD	40	180	136	2.5	170	240	1	Six Pack	GWM	ISOPLUS	IXYS



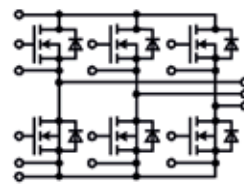
ISOPLUS DIL™
GWM... SL version



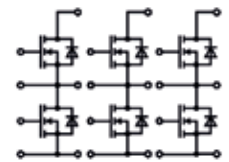
ISOPLUS DIL™
GWM... SMD version



ISOPLUS DIL™
GMM... SMD version



GWM / VWM
Six-Pack
Triple phase leg



GMM
Six-Pack
Triple phase leg

Features:

- V_{dss}: 40V to 150V, I_{d(25)}: up to 180A
- Very low $R_{DS(on)}$
- optimized fast intrinsic reverse diode
- T_{vj} max: 175°C
- Kelvin source terminals for easy drive
- min. 1000 Vrms Isolation