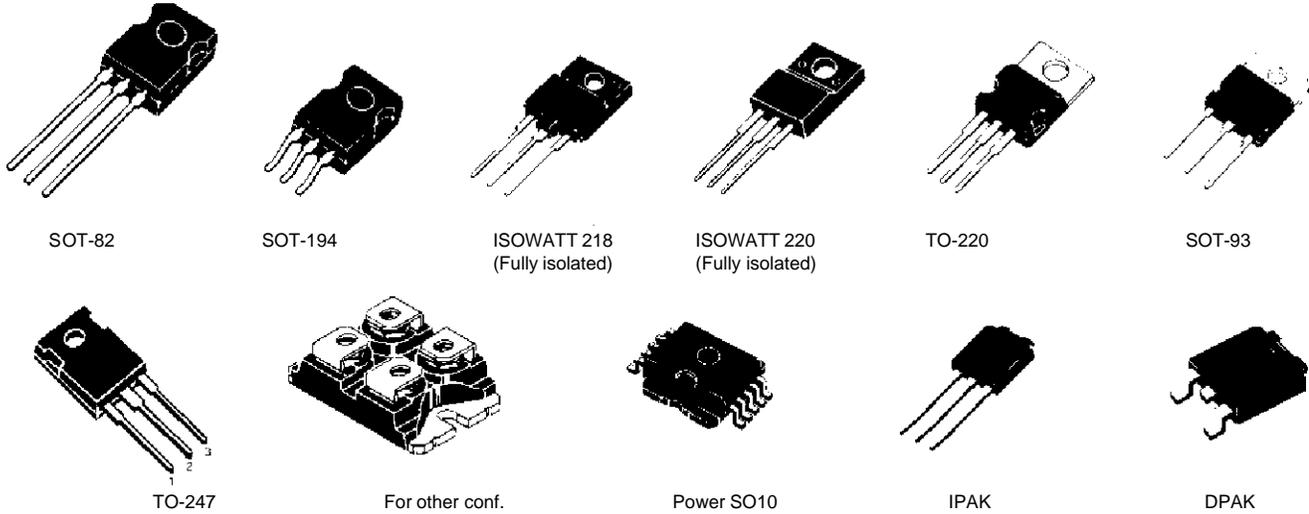
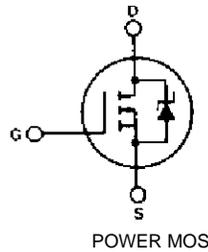


POWER MOS



Internal schematic diagrams



V _{DSS} (V)	R _{Dson} (max) (Ω)	Package	Sales Type	I _{D cont} (A)	P _{tot} (W)
1000	0.700	ISOTOP	STE16N100	16	400
1000	0.770	ISOTOP	STE15N100	15	400
1000	2.000	TO-218	STH6N100	6	180
1000	2.000	ISOWATT218	STH6N100FI	3.7	70
1000	3.500	TO-218	STHV102	4.2	150
1000	3.500	ISOWATT218	STHV102FI	2.6	60
1000	3.500	TO-220	STP4N100	4	125
1000	3.500	ISOWATT220	STP4N100FI	2.2	40
1000	3.500	PowerSO-10	STV4N100	4.0	125
1000	4.000	ISOWATT221	STP4N100XI	2	35
1000	5.000	TO-220	STP3N100	3.5	100
1000	5.000	ISOWATT220	STP3N100FI	2	40
1000	6.000	ISOWATT221	STP3N100XI	1.6	30
900	1.400	TO-218	STH7N90	7.5	180
900	1.400	ISOWATT218	STH7N90FI	4.5	70
900	2.400	TO-218	STH5N90	5.3	150
900	2.400	ISOWATT218	STH5N90FI	3.5	60
900	2.400	TO-220	STP5N90	5	125
900	2.400	ISOWATT220	STP5N90FI	2.8	40
900	3.200	TO-218	STH4N90	4.2	125
900	3.200	ISOWATT218	STH4N90FI	2.7	55
900	3.500	TO-220	STP4N90	3.6	100

For I_{D cont} definition see introductory note

▲ High switching speed and low gate charge

* Available on request

■ Logic

V_{DSS} (V)	R_{Dson} (max) (Ω)	Package	Sales Type	I_D cont (A)	P_{tot} (W)
900	3.500	ISOWATT220	STP4N90FI	2.3	40
900	4.500	TO-220	STP3N90	3.2	100
900	4.500	ISOWATT220	STP3N90FI	1.9	40
800	0.400	ISOTOP	STE22N80	22	400
800	1.000	TO-218	STH9N80	9	180
800	1.000	ISOWATT218	STH9N80FI	5.6	70
800	1.200	TO-218	STH8N80	8.2	180
800	1.900	TO-218	STH7NA80	6.5	150
800	1.900	ISOWATT-218	STH7NA80FI	4.0	60
800	1.900	TO-220	STP6NA80	5.7	125
800	1.900	ISOWATT220	STP6NA80FI	3.4	45
800	1.200	ISOWATT218	STH8N80FI	5.1	70
800	1.200	TO-247	STW8N80	8.2	180
800	2.000	TO-218	STHV82	5.5	150
800	2.000	ISOWATT218	STHV82FI	3.6	60
800	2.000	TO-220	STP5N80	5.5	125
800	2.000	ISOWATT220	STP5N80FI	3.1	40
800	2.400	TO-218	STH6NA80 ▲	5.8	150
800	2.400	ISOWATT218	STH6NA80FI ▲	3.7	60
800	2.400	ISOWATT221	STP5N80XI	2.6	35
800	2.400	TO-220	STP5NA80 ▲	4.8	125
800	2.400	ISOWATT220	STP5NA80FI ▲	2.7	40
800	2.400	PowerSO-10	STV5NA80 ▲	4.7	125
800	3.000	TO-220	BUZ80A	3.8	100
800	3.000	ISOWATT220	BUZ80AFI	2.4	40
800	3.000	TO-218	STH4N80	4.3	125
800	3.000	ISOWATT218	STH4N80FI	2.8	55
800	3.500	TO-220	STP4NA80	3.8	100
800	3.500	ISOWATT220	STP4NA80FI	2.4	40
800	3.500	ISOWATT221	STP4N80XI	2	30
800	3.000	PowerSO-10	STV4NA80	3.8	110
800	4.000	TO-220	BUZ80	3.4	100
800	4.000	ISOWATT220	BUZ80FI	2.1	40
800	4.500	TO-220	STP3NA80	3	100
800	4.500	ISOWATT220	STP3NA80FI	2	40
800	4.500	ISOWATT221	STP3N80XI	1.7	28
800	4.500	PowerSO-10	STV3NA80	3.2	100
800	7.000	SOT-82	STK2N80	2.1	70
800	7.000	TO-220	STP2N80	2.4	90
800	7.000	ISOWATT220	STP2N80FI	1.5	35
600	0.150	ISOTOP	STE38N60	38	450
600	0.600	TO-218	STH12N60	12	180
600	0.600	ISOWATT218	STH12N60FI	7	70
600	0.600	TO-247	STW12N60	12	180
600	0.800	TO-218	STH9NA60	9.5	160
600	0.800	ISOWATT218	STH9NA60FI	6.4	70
600	0.800	TO-247	STW9NA60	9.5	160
600	1.000	TO-218	STH8NA60	8	150
600	1.000	ISOWATT218	STH8NA60FI	4.3	45
600	1.000	TO-220	STP7NA60	7.2	125
600	1.000	ISOWATT220	STP7NA60FI	4.3	45
600	1.200	TO-220	MTP6N60	16.8	125
600	1.200	TO-218	STH7NA60	7.2	150
600	1.200	ISOWATT218	STH7NA60FI	4.6	60

For I_D cont definition see introductory note

▲ High switching speed and low gate charge

* Available on

V _{DSS} (V)	R _{Dson} (max) (Ω)	Package	Sales Type	I _{D cont} (A)	P _{tot} (W)
600	1.000	PowerSO-10	STV7NA60	6.5	125
600	1.200	TO-220	STP6NA60	6.5	125
600	1.200	ISOWATT220	STP6NA60FI	3.9	45
600	1.200	ISOWATT220	STP6N60FI	3.8	40
600	1.200	PowerSO-10	STV6NA60	6.5	110
600	1.600	TO-220	STP5N60	5.6	100
600	1.600	ISOWATT220	STP5N60FI	3.4	40
600	1.600	TO-220	STP5NA60	5.3	110
600	1.600	ISOWATT220	STP5NA60FI	3.4	45
600	2.200	TO-220	STP4NA60	4.3	100
600	2.200	ISOWATT220	STP4NA60FI	2.7	40
600	2.200	TO-220	IRFBC30	4.3	100
600	2.200	ISOWATT220	STP3N60FI	2.7	35
600	2.200	PowerSO-10	STV4NA60	4.4	100
600	2.500	TO-220	MTP3N60	3.9	100
600	2.500	ISOWATT220	MTP3N60FI	2.5	35
600	2.500	ISOWATT221	STP3N60XI	2.4	28
600	3.500	TO-220	STP2N60	2.9	70
600	3.500	ISOWATT220	STP2N60FI	2.2	35
600	8.000	SOT-82	STK2NA60	1.9	50
600	8.000	DKPAK/IPAK	STD1NA60	1.6	40
600	8.000	SOT-82	STK2NA60	1.9	50
550	0.120	ISOTOP	STE40N55	40	450
500	0.100	ISOTOP	STE47N50	47	450
500	0.110	ISOTOP	STE45N50	45	450
500	0.140	ISOTOP	STE36N50	36	410
500	0.200	ISOTOP	STE26N50	26	300
500	0.270	TO-247	STW20NA50	20	250
500	0.400	TO-218	IRFP450	14	180
500	0.400	ISOWATT218	IRFP450FI	9	70
500	0.400	TO-247	IRFW450	14	180
500	0.400	TO-218	STH15N50 ▲	15	180
500	0.400	ISOWATT218	STH15N50FI ▲	9.3	70
500	0.400	TO-218	STH15NA50	15	180
500	0.400	ISOWATT218	STH15NA50FI	9.3	70
500	0.400	TO-247	STW15N50 ▲	15	180
500	0.400	TO-247	STW15NA50	15	180
500	0.450	TO-218	STH14N50 ▲	14.1	180
500	0.450	ISOWATT218	STH14N50FI ▲	8.8	70
500	0.450	TO-247	STW14N50 ▲	14.1	180
500	0.600	TO-247	STW12NA50	11.6	170
500	0.800	TO-218	STH10NA50 ▲	9.6	150
500	0.800	ISOWATT218	STH10NA50FI ▲	5.6	60
500	0.800	TO-220	STP9NA50 ▲	8.8	125
500	0.800	ISOWATT220	STP9NA50FI ▲	5.0	45
500	0.850	TO-220	IRF840	8	125
500	0.850	ISOWATT220	IRF840FI	4.5	40
500	0.850	ISOWATT221	STP8N50XI	4.5	35
500	0.850	TO-220	STP8NA50 ▲	8	125
500	0.850	ISOWATT220	STP8NA50FI ▲	4.5	40
500	0.850	PowerSO-10	STV8NA50 ▲	8	125
500	1.100	TO-220	STP6N50	6	100
500	1.100	ISOWATT220	STP6N50FI	3.8	40
500	1.100	TO-220	STP6NA50	6	110

For I_{D cont} definition see introductory note

▲ High switching speed and low gate charge

* Available on request

■ Logic

V_{DSS} (V)	R_{Dson} (max) (Ω)	Package	Sales Type	I_D cont (A)	P_{tot} (W)
500	1.100	ISOWATT220	STP6NA50FI	4	45
500	1.500	TO-220	IRF830	4.5	100
500	1.500	ISOWATT220	IRF830FI	3	35
500	1.600	TO-220	STP5NA50 ▲	5	100
500	1.600	ISOWATT220	STP5NA50FI ▲	3.1	35
500	1.600	TO-220	STP5N50	4.5	100
500	1.600	ISOWATT220	STP5N50FI	3	35
500	1.600	PowerSO-10	STV5NA50 ▲	4.5	100
500	3.000	TO-220	IRF820	3	75
500	3.000	ISOWATT220	IRF820FI	2.2	35
500	3.000	ISOWATT220	STP3NA50FI	2.2	35
500	3.000	I-PAK	STD3NA50-1	2.7	50
500	3.800	SOT-82	STK3N50	2.7	60
500	3.800	SOT-82	STK3NA50	2.7	50
500	4.000	TO-220	IRF822	2.8	75
500	4.000	ISOWATT220	IRF822FI	1.9	35
500	4.000	ISOWATT221	STP3N50XI	1.7	25
500	5.500	IPAK	STD2N50-1	2.2	45
500	6.000	SOT-82	STK2N50	2	50
450	0.850	TO-220	IRF841	8	125
450	0.850	ISOWATT220	IRF841FI	4.5	40
450	1.500	TO-220	IRF831	4.5	100
450	1.500	ISOWATT220	IRF831FI	3	35
400	0.075	ISOTOP	STE50N40	50	450
400	0.300	TO-218	IRFP350	16	180
400	0.300	ISOWATT218	IRFP350FI	10	70
400	0.300	TO-247	STW16N40	16	180
400	0.550	TO-220	IRF740	10	125
400	0.550	ISOWATT220	IRF740FI	5.5	40
400	0.550	PowerSO-10	STV10NA40	10	125
400	0.550	TO-220	STP10NA40	10	125
400	0.550	ISOWATT220	STP10NA40FI	6	45
400	1.000	TO-220	IRF730	5.5	100
400	1.000	ISOWATT220	IRF730FI	3.5	35
400	1.000	TO-220	STP7NA40	6.5	100
400	1.000	ISOWATT220	STP7NA40FI	4.1	40
400	1.000	PowerSO-10	STV7NA40	6.5	100
400	1.800	TO-220	IRF720	4.2	75
400	1.800	ISOWATT220	IRF720FI	3	35
400	2.100	TO-220	STP4N40	4	75
400	2.100	ISOWATT220	STP4N40FI	3	35
400	2.200	SOT-82	STK4N40	3.7	60
400	2.500	TO-220	BUZ76A	3.8	75
300	0.550	TO-220	STP9N30	9.0	100
300	1.400	IPAK	STD3N30-1	3.0	50
300	1.400	IPAK	STD3N30L-1	3.0	50
300	1.400	SOT-82	STK4N30	4.2	50
300	1.400	SOT-82	STK4N30	4.2	50
300	1.400	SOT-82	STK4N30L ▲	4.2	50
300	1.400	TO-220	STP5N30	5	75
300	1.400	ISOWATT220	STP5N30FI	3	35
300	1.400	TO-220	STP5N30L ▲	5	75
300	1.400	ISOWATT220	STP5N30LFI ▲	3.5	35
250	0.110	TO-218	STH26N25	26	180

For I_D cont definition see introductory note

▲ High switching speed and low gate charge

* Available on request

■ Logic

V _{DSS} (V)	R _{Dson} (max) (Ω)	Package	Sales Type	I _{D cont} (A)	P _{tot} (W)
250	0.110	ISOWATT218	STH26N25FI	16	70
250	1.000	ISOWATT220	STP6N25FI	4.0	35
250	1.100	IPAK	STD3N30L	4.0	50
250	1.100	SOT-82	STK4N25	4.0	50
250	1.100	TO-220	STP5N25L	5.0	70
250	1.100	ISOWATT-220	STP5N25LFI	3.5	35
250	1.100	TO-220	STP6N25	6	75
200	0.021	ISOTOP	STE100N20	100	450
200	0.085	TO-218	STH33N20	33	180
200	0.085	ISOWATT218	STH33N20FI	20	70
200	0.085	TO-247	STW33N20	33	180
200	0.180	TO-220	IRF640	18	125
200	0.180	ISOWATT220	IRF640FI	10	40
200	0.180	TO-218	IRFP240	20	150
200	0.180	ISOWATT218	IRFP240FI	12	55
200	0.180	PowerSO-10	STV18N20	18	125
200	0.400	TO-220	IRF630	10	100
200	0.400	ISOWATT220	IRF630FI	6	35
200	0.300	PowerSO-10	STV12N20	12	100
200	0.650	TO-220	STP7N20	7	75
200	0.650	ISOWATT220	STP7N20FI	4.5	30
200	0.800	TO-220	IRF620	5	70
200	0.800	ISOWATT220	IRF620FI	4	30
200	0.700	IPAK	STD5N20-1	5.0	50
200	0.700	SOT-82	STK6N20	6	60
100	0.007	ISOTOP	STE180N10	180	450
100	0.009	ISOTOP	STE150N10	150	410
100	0.025	TO-218	STH60N10	60	200
100	0.025	ISOWATT218	STH60N10FI	38	80
100	0.025	TO-247	STW60N10	60	200
100	0.030	TO-218	STH55N10	55	200
100	0.030	ISOWATT218	STH55N10FI	34	80
100	0.030	TO-247	STW55N10	55	200
100	0.040	TO-218	STH45N10	45	180
100	0.040	ISOWATT218	STH45N10FI	27	65
100	0.040	TO-220	STP40N10	40	150
100	0.040	ISOWATT220	STP40N10FI	22	45
100	0.040	PowerSO-10	STV40N10	40	150
100	0.055	TO-218	IRFP150	40	180
100	0.055	ISOWATT218	IRFP150FI	23	65
100	0.060	TO-220	STP33N10	33	150
100	0.060	ISOWATT220	STP33N10FI	18	45
100	0.060	PowerSO-10	STV33N10	33	150
100	0.077	TO-220	IRF540	30	150
100	0.077	ISOWATT220	IRF540FI	16	45
100	0.100	TO-220	BUZ21	21	105
100	0.110	SOT-82	STK17N10	17	65
100	0.120	SOT-82	STK16N10L ■	16	65
100	0.120	TO-220	STP20N10	20	105
100	0.120	ISOWATT220	STP20N10FI	12	40
100	0.120	TO-220	STP20N10L ■	20	105
100	0.120	ISOWATT220	STP20N10LFI ■	12	40
100	0.140	SOT-82	STK14N10	14	65
100	0.140	TO-220	STP18N10	18	90

V_{DSS} (V)	R_{Dson} (max) (Ω)	Package	Sales Type	I_D cont (A)	P_{tot} (W)
100	0.140	ISOWATT220	STP18N10FI	11	40
100	0.160	TO-220	IRF530	16	90
100	0.160	ISOWATT220	IRF530FI	10	40
100	0.200	TO-220	STP13N10L	13	80
100	0.200	ISOWATT220	STP13N10LFI	9	35
100	0.250	DPAK/IPAK	STD8N10L	8	35
100	0.250	TO-220	BUZ72A	11	70
100	0.270	TO-220	IRF520	10	70
100	0.270	ISOWATT220	IRF520FI	7	35
100	0.300	DPAK	STD8N10	8.0	45
100	0.300	DPAK	STD8N10L	8.0	45
100	0.300	SOT-82	STK9N10	9	50
60	0.014	TO-218	STH75N06	75	200
60	0.014	ISOWATT218	STH75N06FI	50	80
60	0.014	TO-247	STW75N06	75	200
60	0.016	TO-220	STP60N06-16	60	150
60	0.020	TO-218	STH65N06	65	180
60	0.020	ISOWATT218	STH65N06FI	38	65
60	0.020	TO-220	STP60N06	60	150
60	0.020	ISOWATT220	STP60N06FI	32	45
60	0.020	PowerSO-10	STV60N06	60	150
60	0.023	TO-220	STP55N06L ■	55	150
60	0.023	ISOWATT220	STP55N06LFI ■	30	45
60	0.023	PowerSO-10	STV55N06L	5.5	150
60	0.025	TO-220	STP53N06	53	150
60	0.028	TO-220	STP50N06	50	150
60	0.028	ISOWATT220	STP50N06FI	27	45
60	0.028	TO-220	STP50N06L ■	50	200
60	0.028	ISOWATT220	STP50N06LFI ■	24	40
60	0.028	PowerSO-10	STV50N06	50	150
60	0.040	TO-220	STP36N06	36	120
60	0.040	ISOWATT220	STP36N06FI	21	40
60	0.040	TO-220	STP36N06L ■	36	120
60	0.040	ISOWATT220	STP36N06LFI ■	21	40
60	0.040	PowerSO-10	STV36N06	36	120
60	0.045	DPAK/IPAK	STD20N06	20	80
60	0.045	TO-220	STP38N06	38	90
60	0.050	TO-220	STP30N06	30	105
60	0.050	ISOWATT220	STP30N06FI	19	40
60	0.055	SOT-82	STK23N06L ■	23	65
60	0.055	TO-220	STP32N06L ■	32	105
60	0.055	ISOWATT220	STP32N06LFI ■	19	40
60	0.065	SOT-82	STK22N06	22	65
60	0.065	TO-220	STP25N06	25	90
60	0.065	ISOWATT220	STP25N06FI	16	40
60	0.085	DPAK	STD17N06	17	55
60	0.085	DPAK	STD17N06L	17	55
60	0.085	SOT-82	STK18N06	18	60
60	0.085	SOT-82	STK18N06L ■	18	60
60	0.085	TO-220	STP20N06	20	80
60	0.085	ISOWATT220	STP20N06FI	13	35
60	0.085	TO-220	STP21N06L ■	21	80
60	0.085	ISOWATT220	STP21N06LFI ■	14	35
60	0.100	DPAK/IPAK	STD15N06	15	50

For I_D cont definition see introductory note

▲ High switching speed and low gate charge

* Available on request

■ Logic

V _{DSS} (V)	R _{Dson} (max) (Ω)	Package	Sales Type	I _{D cont} (A)	P _{tot} (W)
60	0.100	TO-220	STP19N06L	19	80
60	0.100	ISOWATT220	STP19N06LFI	13	35
60	0.100	TO-220	STP19N06	19	80
60	0.100	ISOWATT220	STP19N06FI	13	35
60	0.100	DPAK/IPAK	STD15N06L	15	50
60	0.120	SOT-82	STK14N06	14	50
60	0.150	TO-220	MTP3055E	14	70
60	0.150	ISOWATT220	MTP3055EFI	10	35
60	0.150	SOT-82	STK12N06L ■	12	50
60	0.150	DPAK	STD12N06	12	45
60	0.150	DPAK	STD12N06L	12	45
60	0.150	SOT-82	STK3055E	12	50
60	0.150	TO-220	STP15N06L ■	15	70
60	0.150	ISOWATT220	STP15N06LFI ■	10	35
50	0.004	ISOTOP	STE250N05	250	450
50	0.006	ISOTOP	STE180N05	180	360
50	0.012	TO-218	STH80N05	80	200
50	0.012	ISOWATT218	STH80N05FI	52	70
50	0.012	TO-247	STW80N05	80	200
50	0.016	TO-220	STP60N05-16	60	150
50	0.016	PowerSO-10	STV60N05-16	60	150
50	0.020	TO-218	STH65N05	65	180
50	0.020	ISOWATT218	STH65N05FI	38	65
50	0.020	TO-220	STP60N05	60	150
50	0.020	ISOWATT220	STP60N05FI	32	45
50	0.020	PowerSO-10	STV60N05	60	150
50	0.023	TO-220	STP55N05L ■	55	150
50	0.023	ISOWATT220	STP55N05LFI ■	30	45
50	0.023	PowerSO-10	STV55N05L	55	150
50	0.025	TO-220	STP53N05	53	150
50	0.028	TO-220	IRFZ40	50	150
50	0.028	ISOWATT220	IRFZ40FI	27	45
50	0.028	TO-220	STP50N05L ■	50	200
50	0.028	ISOWATT220	STP50N05LFI ■	24	40
50	0.028	PowerSO-10	STV50N05	50	150
50	0.035	TO-220	STP40N05	40	125
50	0.035	ISOWATT220	STP40N05FI	23	40
50	0.035	PowerSO-10	STV40N05	40	120
50	0.040	TO-220	BUZ11	36	120
50	0.040	ISOWATT220	BUZ11FI	21	40
50	0.040	TO-220	STP36N05L ■	36	120
50	0.040	ISOWATT220	STP36N05LFI ■	21	40
50	0.050	TO-220	STP30N05	30	105
50	0.050	ISOWATT220	STP30N05FI	19	40
50	0.055	TO-220	BUZ11A	27	90
50	0.055	SOT-82	STK23N05L ■	23	65
50	0.055	TO-220	STP32N05L ■	32	105
50	0.055	ISOWATT220	STP32N05LFI ■	19	40
50	0.065	SOT-82	STK22N05	22	65
50	0.065	TO-220	STP25N05	25	90
50	0.065	ISOWATT220	STP25N05FI	16	40
50	0.070	TO-220	BUZ10	20	80
50	0.085	DPAK	STD17N05	17	55
50	0.085	DPAK	STD17N05L	17	55

For ID cont definition see introductory note

▲ High switching speed and low gate charge

* Available on request

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V_{DSS} (V)	R_{Dson} (max) (Ω)	Package	Sales Type	I_D cont (A)	P_{tot} (W)
50	0.085	SOT-82	STK18N05	18	60
50	0.085	SOT-82	STK18N05L ■	18	60
50	0.085	TO-220	STP21N05L ■	21	80
50	0.085	ISOWATT220	STP21N05LFI ■	14	35
50	0.100	TO-220	BUZ71	18	80
50	0.100	ISOWATT220	BUZ71FI	12	35
50	0.120	TO-220	BUZ71A	13	40
50	0.120	ISOWATT220	BUZ71AFI	11	35
50	0.120	SOT-82	STK14N05	14	50
50	0.150	DPAK	STD12N05	12	45
50	0.150	DPAK	STD12N05L	12	45
50	0.150	SOT-82	STK12N05L ■	12	50
50	0.150	TO-220	STP15N05L ■	15	70
50	0.150	ISOWATT220	STP15N05LFI ■	10	35
30	0.012		STV60N03L-12	60	150

For I_D cont definition see introductory note

▲ High switching speed and low gate charge

* Available on request

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