

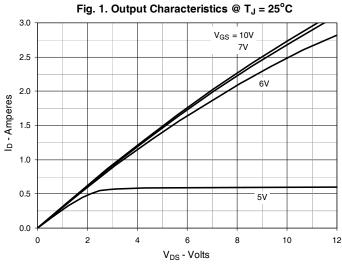
<b>Symbol</b> (T <sub>J</sub> = 25)		Test Conditions Inless Otherwise Specified)	Chai Min.	racteristic	Values Max
g <sub>fs</sub>		V <sub>DS</sub> = 20V, I <sub>D</sub> = 0.5 • I <sub>D25</sub> , Note 1	1.5	2.4	S
C <sub>iss</sub>				1100	pF
C <sub>oss</sub>		$V_{GS} = 0V, V_{DS} = 25V, f = 1MHz$		70	pF
C <sub>rss</sub>				14.5	pF
t <sub>d(on)</sub>	)	Resistive Switching Times		22	ns
t,		$V_{GS} = 10V, V_{DS} = 0.5 \cdot V_{DSS}, I_{D} = 0.5 \cdot I_{D25}$		27	ns
$\mathbf{t}_{d(off)}$		$R_{\rm g} = 18\Omega$ (External)		75	ns
t <sub>f</sub>	J	Tig = Toll (External)		29	ns
Q <sub>g(on)</sub>	)			36	nC
$\mathbf{Q}_{gs}$	}	$V_{GS} = 10V, V_{DS} = 0.5 \cdot V_{DSS}, I_{D} = 0.5 \cdot I_{D25}$		9	nC
$\mathbf{Q}_{gd}$	J			13	nC
R <sub>thJC</sub>					1.0 °C/W
R <sub>thCS</sub>		TO-220		0.50	°C/W
		TO-247		0.21	°C/W

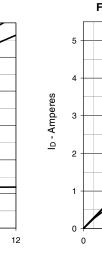
## Source-Drain Diode

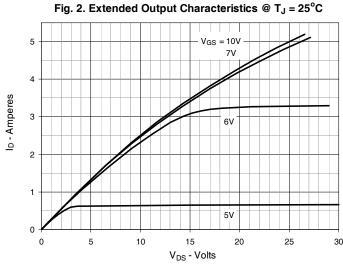
Symbol	Test Conditions	Chara	cteristic	<b>Values</b>	
$(T_J = 25^{\circ}C,$	Unless Otherwise Specified)	Min.	Тур.	Max	
Is	$V_{GS} = 0V$			3	Α
SM	Repetitive, pulse Width Limited by ${\rm T}_{_{\rm JM}}$			9	Α
V <sub>SD</sub>	$I_F = I_S$ , $V_{GS} = 0V$ , Note 1			1.5	V
t <sub>rr</sub>	$I_F = 3A$ , -di/dt = 100A/ $\mu$ s $V_R = 100V$		820		ns

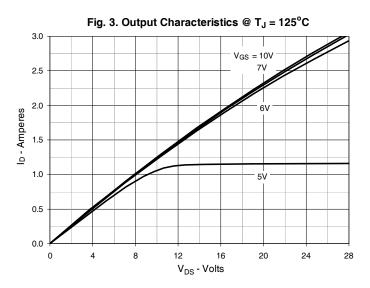
Note 1. Pulse test,  $t \le 300 \mu s$ , duty cycle,  $d \le 2\%$ .

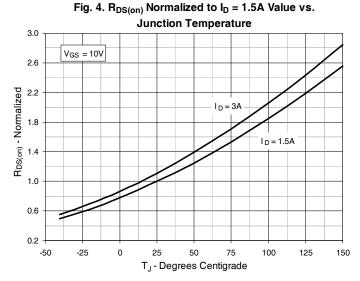
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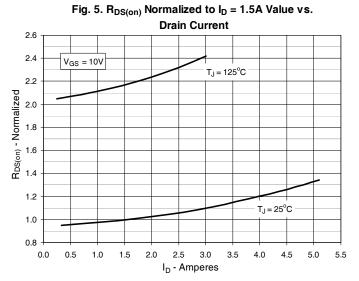


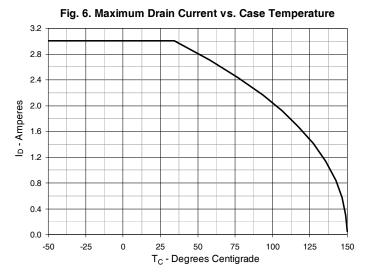






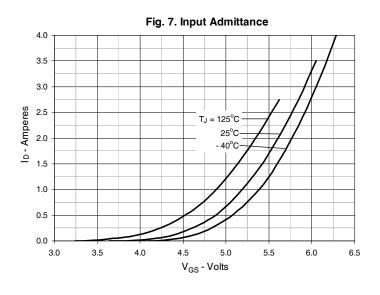


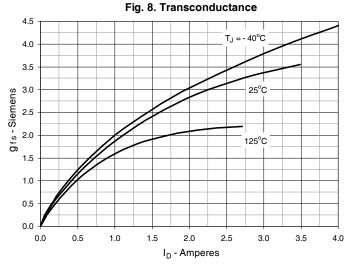


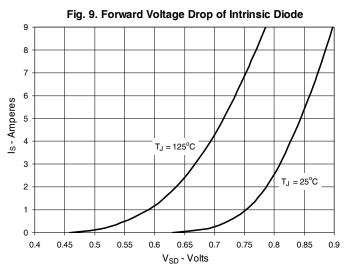


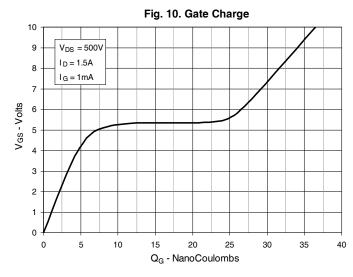
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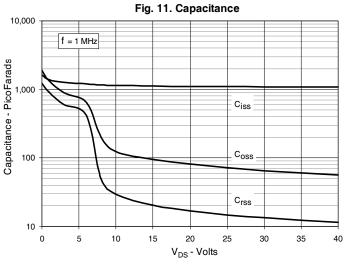


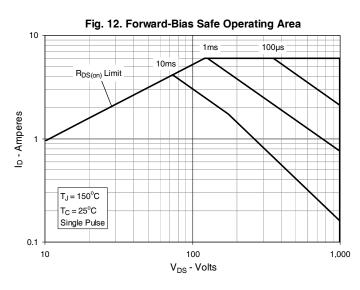












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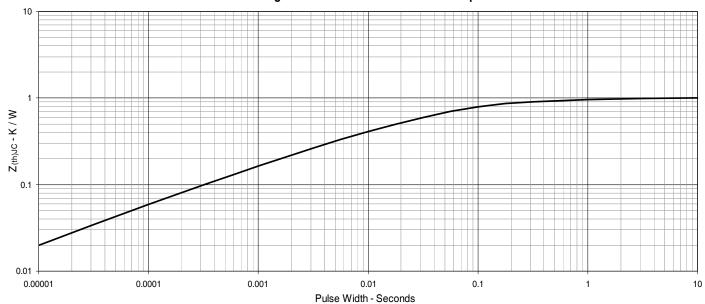
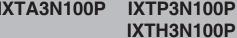
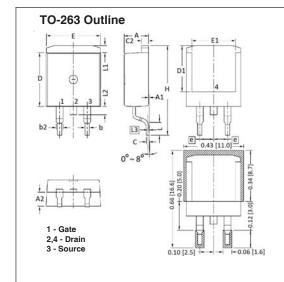


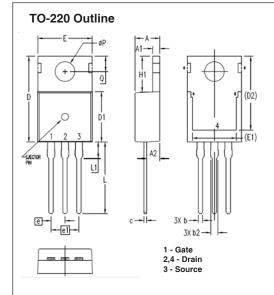
Fig. 13. Maximum Transient Thermal Impedance



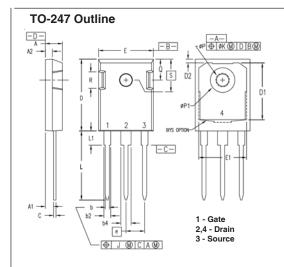




SYM	INCH	HES	MILLIMETER		
21M	MIN	MAX	MIN	MAX	
Α	.170	.185	4.30	4.70	
A1	.000	.008	0.00	0.20	
A2	.091	.098	2.30	2.50	
b	.028	.035	0.70	0.90	
b2	.046	.060	1.18	1.52	
С	.018	.024	0.45	0.60	
C2	.049	.060	1.25	1.52	
D	.340	.370	8.63	9.40	
D1	.300	.327	7.62	8.30	
Ε	.380	.410	9.65	10.41	
E1	.270	.330	6.86	8.38	
е	.100	BSC	2.54	2.54 BSC	
Н	.580	.620	14.73	15.75	
L	.075	.105	1.91	2.67	
L1	.039	.060	1.00	1.52	
L2	_	.070	_	1.77	
L3	.010	BSC	0.254	BSC	



MYZ	INCHES		MILLIMETERS		
21M	MIN	MAX	MIN	MAX	
Α	.169	.185	4.30	4.70	
A1	.047	.055	1.20	1.40	
A2	.079	.106	2.00	2.70	
Ф	.024	.039	0.60	1.00	
b2	.045	.057	1.15	1.45	
O	.014	.026	0.35	0.65	
D	.587	.626	14.90	15.90	
D1	.335	.370	8.50	9.40	
(D2)	.500	.531	12.70	13.50	
Ε	.382	.406	9.70	10.30	
(E1)	.283	.323	7.20	8.20	
Φ	.100 BSC		2.54 BSC		
e1	.200 BSC		5.08 BSC		
H1	.244	.268	6.20	6.80	
L	.492	.547	12.50	13.90	
L1	.110	.154	2.80	3.90	
ØΡ	.134	.150	3.40	3.80	
Q	.106	.126	2.70	3.20	



INCHES		MILLIMETERS		
MIN	MAX	MIN	MAX	
.190	.205	4.83	5.21	
.090	.100	2.29	2.54	
.075	.085	1.91	2.16	
.045	.055	1.14	1.40	
.075	.087	1.91	2.20	
.115	.126	2.92	3.20	
.024	.031	0.61	0.80	
.819	.840	20.80	21.34	
.650	.690	16.51	17.53	
.035	.050	0.89	1.27	
.620	.635	15.75	16.13	
.545	.565	13.84	14.35	
.215	BSC	5.45 BSC		
	.010		0.25	
	.025		0.64	
.780	.810	19.81	20.57	
.150	.170	3.81	4.32	
.140	.144	3.55	3.65	
.275	.290	6.99	7.37	
.220	.244	5.59	6.20	
.170	.190	4.32	4.83	
.242 BSC		6.15 BSC		
	MIN .190 .090 .075 .045 .075 .115 .024 .819 .650 .035 .620 .545 .215 .780 .150 .140 .275 .220 .170	MIN MAX .190 .205 .090 .100 .075 .085 .045 .055 .075 .087 .115 .126 .024 .031 .819 .840 .650 .690 .035 .050 .620 .635 .545 .565 .215 BSC010025 .780 .810 .150 .170 .140 .144 .275 .290 .220 .244 .170 .190	MIN         MAX         MIN           .190         .205         4.83           .090         .100         2.29           .075         .085         1.91           .045         .055         1.14           .075         .087         1.91           .115         .126         2.92           .024         .031         0.61           .819         .840         20.80           .650         .690         16.51           .035         .050         0.89           .620         .635         13.84           .215 BSC         5.45            .010            .780         .810         19.81           .150         .170         3.81           .140         .144         3.55           .275         .290         6.99           .220         .244         5.59           .170         .190         4.32	

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