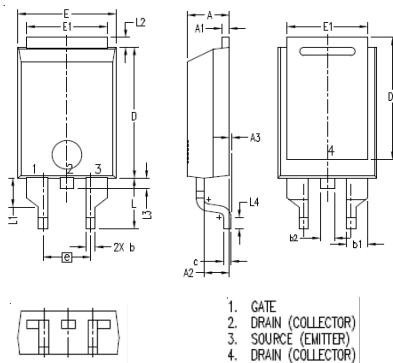


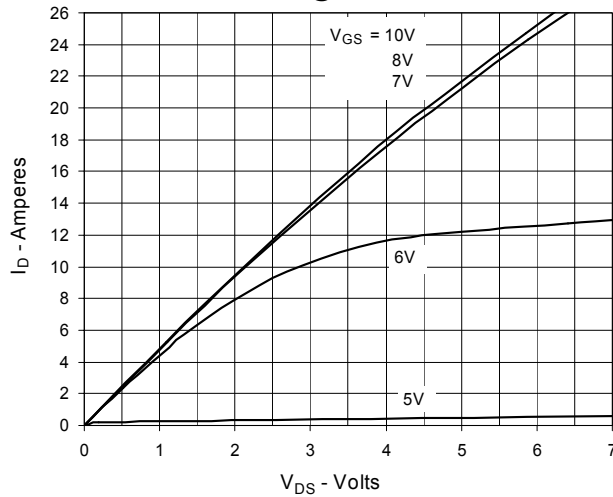
Symbol	Test Conditions	Characteristic Values (T _j = 25° C, unless otherwise specified)		
		Min.	Typ.	Max.
g_{fs}	V _{DS} = 20 V; I _D = 0.5 I _{D25} , pulse test	24	31	S
C_{iss}	V _{GS} = 0 V, V _{DS} = 25 V, f = 1 MHz		3600	pF
C_{oss}			380	pF
C_{rss}			48	pF
t_{d(on)}	V _{GS} = 10 V, V _{DS} = 0.5 I _{D25} R _G = 4 Ω (External)		20	ns
t_r			25	ns
t_{d(off)}			58	ns
t_f			20	ns
Q_{g(on)}	V _{GS} = 10 V, V _{DS} = 0.5 V _{DSS} , I _D = 0.5 I _{D25}		65	nC
Q_{gs}			18	nC
Q_{gd}			20	nC
R_{thJC}			0.21	° C/W
R_{thCS}				° C/W

Source-Drain Diode

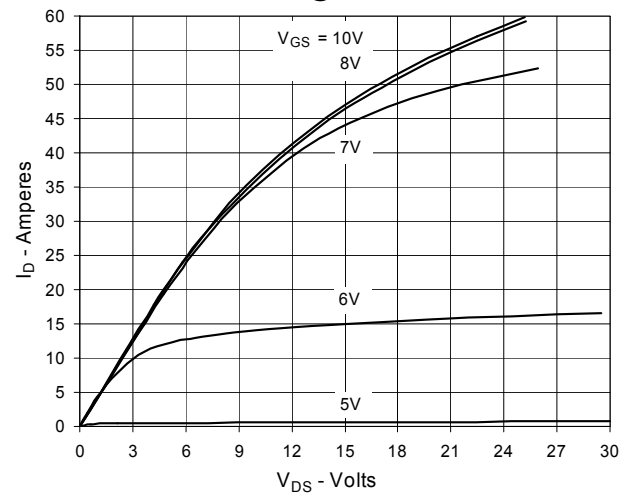
Symbol	Test Conditions	Characteristic Values (T _j = 25° C, unless otherwise specified)		
		Min.	Typ.	Max.
I_S	V _{GS} = 0 V			26 A
I_{SM}	Repetitive			104 A
V_{SD}	I _F = I _S , V _{GS} = 0 V, Pulse test, t ≤ 300 μs, duty cycle d ≤ 2 %			1.5 V
t_{rr}	I _F = 25 A, -di/dt = 100 A/μs V _R = 100 V, V _{GS} = 0 V		300	ns
Q_{RM}			3.3	μC

PLUS220SMD (IXTV_S) Outline


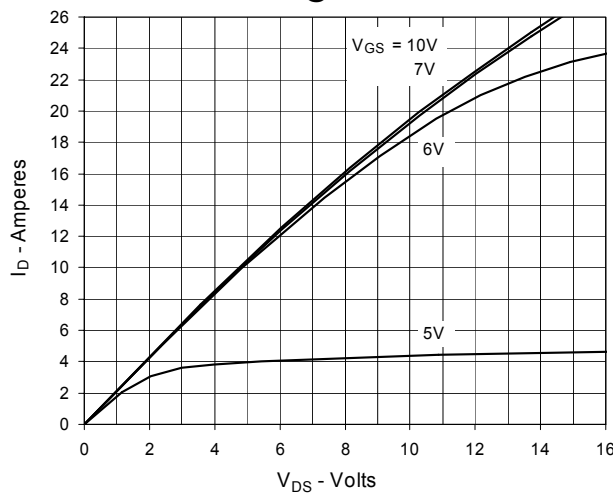
**Fig. 1. Output Characteristics
@ 25°C**



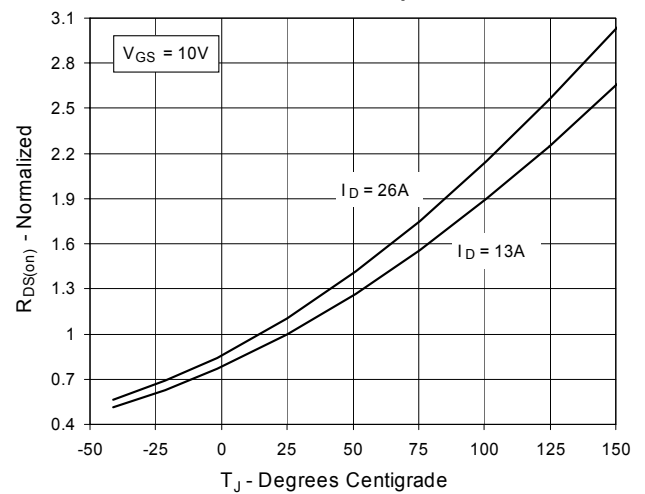
**Fig. 2. Extended Output Characteristics
@ 25°C**



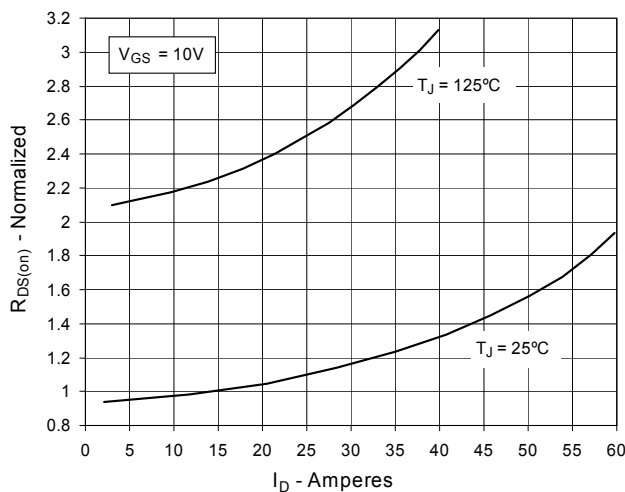
**Fig. 3. Output Characteristics
@ 125°C**



**Fig. 4. $R_{DS(on)}$ Normalized to $I_D = 13A$ Value
vs. Junction Temperature**



**Fig. 5. $R_{DS(on)}$ Normalized to $I_D = 13A$ Value
vs. Drain Current**



**Fig. 6. Maximum Drain Current vs.
Case Temperature**

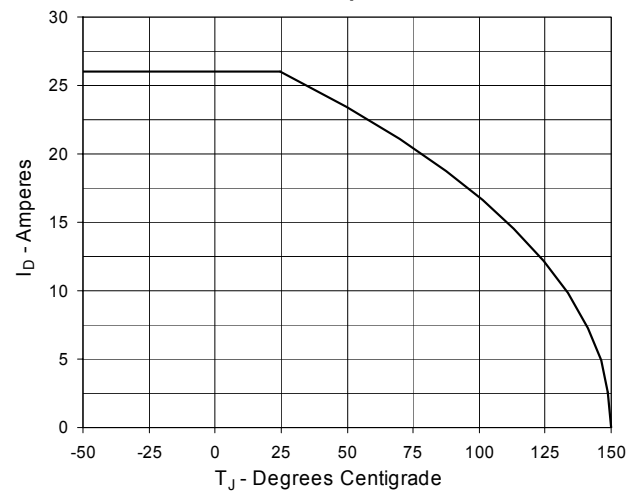


Fig. 7. Input Admittance

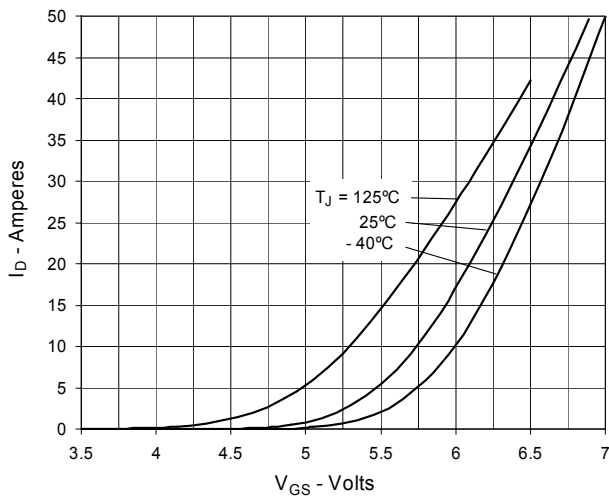


Fig. 8. Transconductance

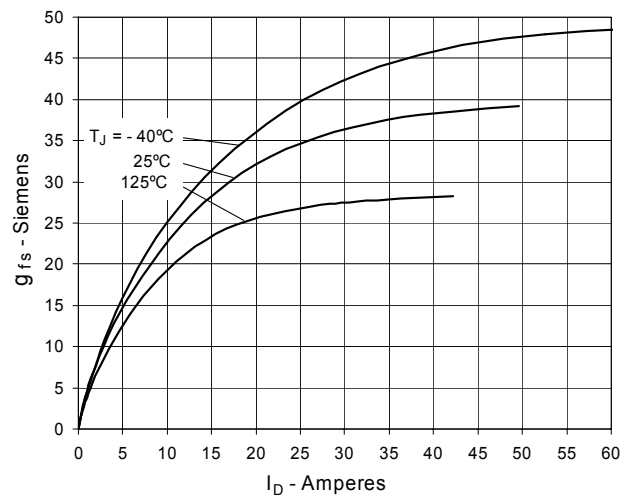


Fig. 9. Forward Voltage Drop of Intrinsic Diode

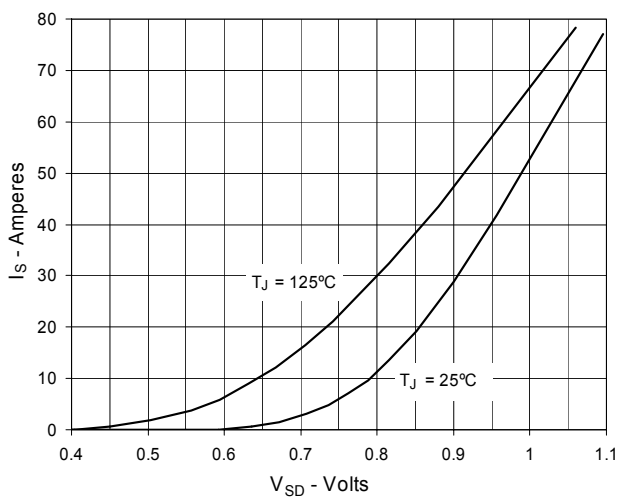


Fig. 10. Gate Charge

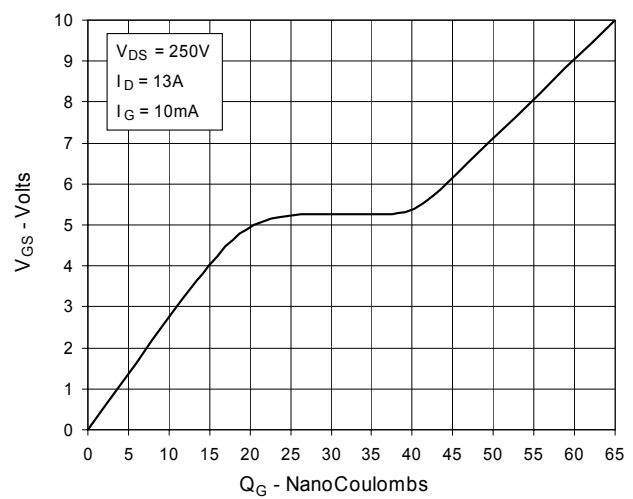


Fig. 11. Capacitance

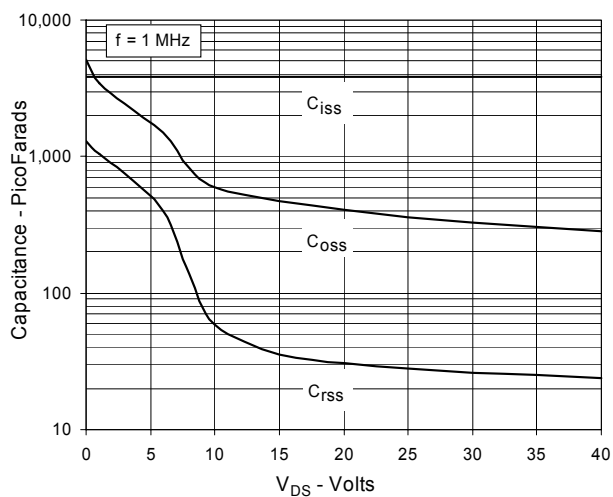


Fig. 12. Forward-Bias Safe Operating Area

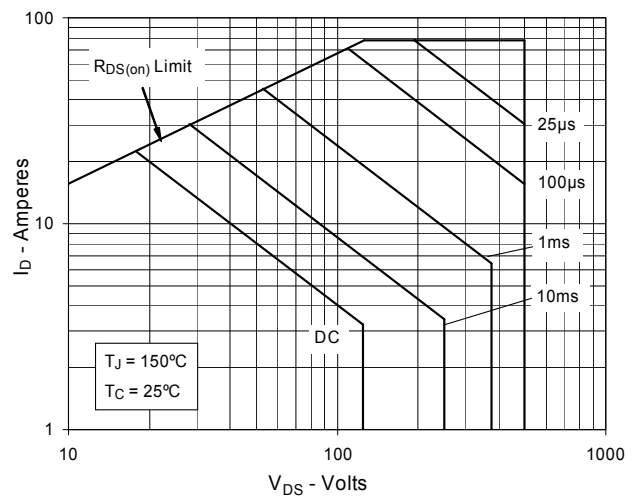
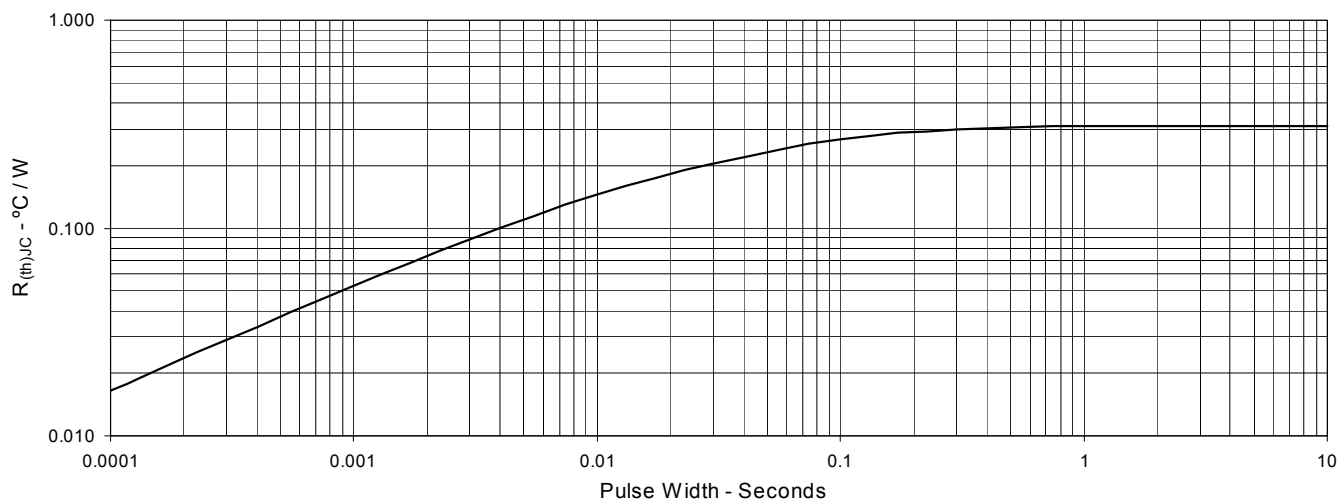
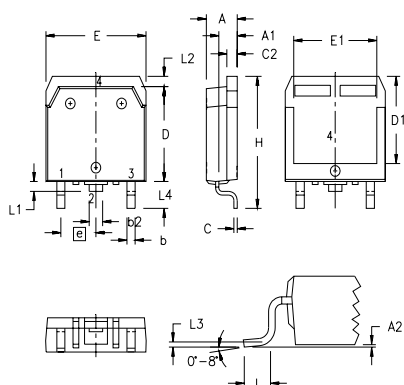


Fig. 13. Maximum Transient Thermal Resistance



TO-268 (IXTT) Outline



SYM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	.193	.201	4.90	5.10
A1	.106	.114	2.70	2.90
A2	.001	.010	0.02	0.25
b	.045	.057	1.15	1.45
b2	.075	.083	1.90	2.10
C	.016	.026	0.40	0.65
C2	.057	.063	1.45	1.60
D	.543	.551	13.80	14.00
D1	.488	.500	12.40	12.70
E	.624	.632	15.85	16.05
E1	.524	.535	13.30	13.60
e	.215 BSC		5.45 BSC	
H	.736	.752	18.70	19.10
L	.094	.106	2.40	2.70
L1	.047	.055	1.20	1.40
L2	.039	.045	1.00	1.15
L3	.010 BSC		0.25 BSC	
L4	.150	.161	3.80	4.10



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