

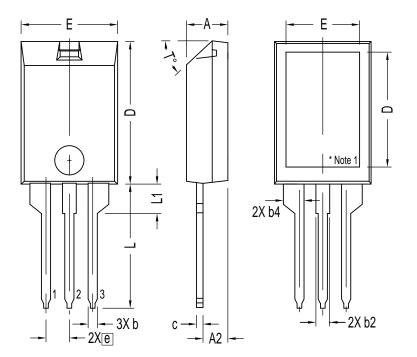
Source-Drain Diode Symbol **Conditions Characteristic Values** $(T_{VJ} = 25^{\circ}C, \text{ unless otherwise specified})$ min. max. typ. $V_{GS} = 0 V$ 20 Α $I_F = 16 \text{ A}; V_{GS} = 0 \text{ V}$ \mathbf{V}_{SD} 0.9 1.2 ٧ \mathbf{t}_{rr} 500 800 ns $I_F = 20 \text{ A}; -di_F/dt = 100 \text{ A/}\mu\text{s}; V_R = 480 \text{ V}$ \mathbf{Q}_{RM} μC 11 70 Α $I_{\rm RM}$

Component								
Symbol	Conditions	Maximum Ratings						
T _{VJ} T _{stg}	operating storage			5+150 5+150	°C			
V _{ISOL}	RMS leads-to-tab, 50/60 Hz, f = 1 minute			2500	V~			
F _c	mounting force		11-65	2.4-11	N/lb			
Symbol	Conditions	Characteristic Values						

Symbol	Conditions	С	Characteristic Values			
		min.	typ.	max.		
R _{thCH}	with heatsink compound		0.3		K/W	
Weight			2.7		g	



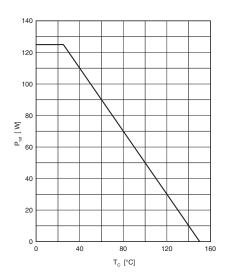
ISOPLUS220™ Outline

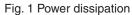


SYM	INCHES		MILLIMETERS		
	MIN	MAX	MIN	MAX	
Α	.157	.197	4.00	5.00	
A2	.098	.118	2.50	3.00	
b	.035	.051	0.90	1.30	
b2	.049	.065	1.25	1.65	
b4	.093	.100	2.35	2.55	
С	.028	.039	0.70	1.00	
D	.591	.630	15.00	16.00	
D1	.472	.512	12.00	13.00	
E	.394	.433	10.00	11.00	
E1	.295	.335	7.50	8.50	
е	.100 BASIC		2.55 BASIC		
L	.512	.571	13.00	14.50	
L1	.118	.138	3.00	3.50	
T°			42.5°	47.5°	

NOTE:

- Bottom heatsink is electrically isolated from Pin 1, 2, or 3.
 This drawing will meet dimensional requirement of JEDEC SS Product Outline TO-273 except D and D1 dimension.





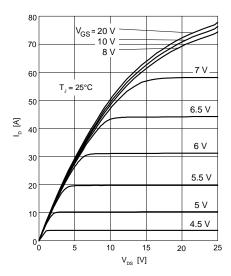


Fig. 2 Typ. output characteristics

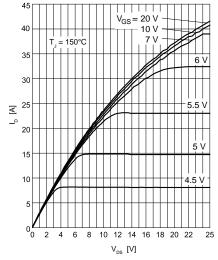


Fig. 3 Typ. output characteristics

IXYS reserves the right to change limits, test conditions and dimensions.

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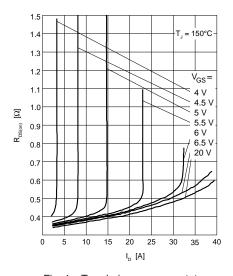


Fig. 4 Typ. drain-source on-state resistance

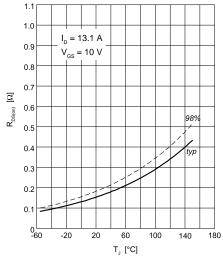
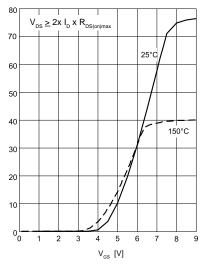


Fig. 5 Drain-source on-state resistance



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Fig. 6 Typ. transfer characteristics

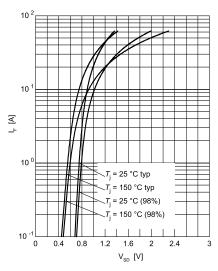


Fig. 7 Forward characteristic of reverse diode

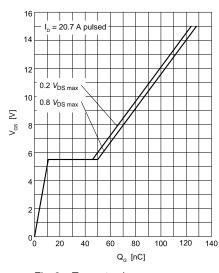


Fig. 8 Typ. gate charge

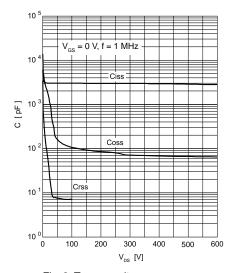


Fig. 9 Typ. capacitances

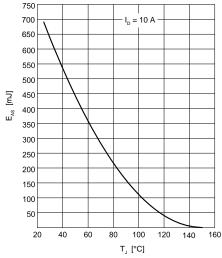


Fig. 10 Avalanche energy

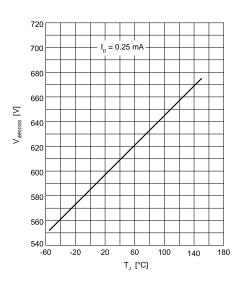


Fig. 11 Drain-source breakdown voltage

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