

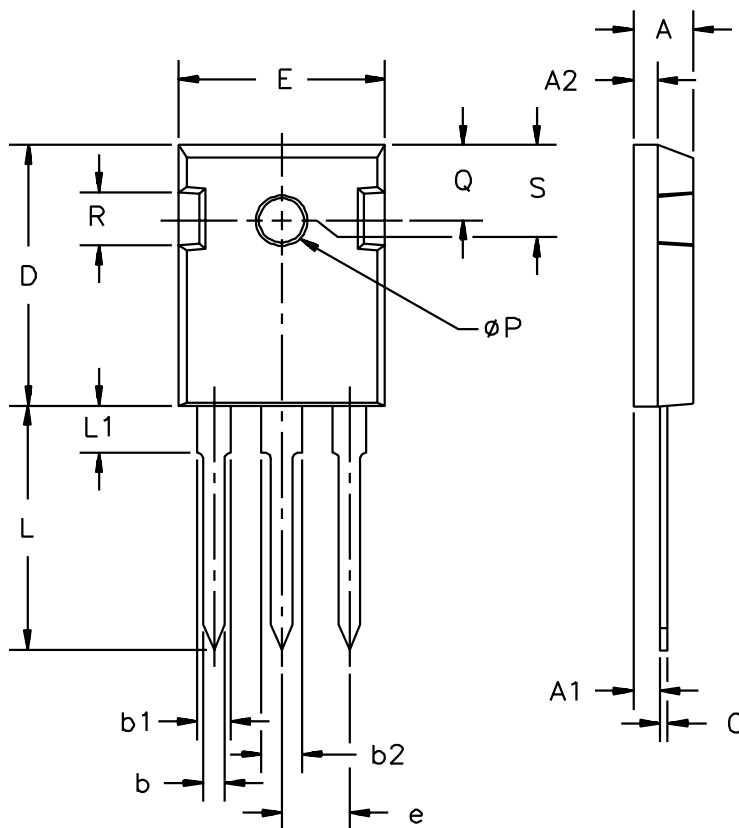
Symbol	Conditions	Characteristic Values		
		(T _J = 25°C, unless otherwise specified)		
		min.	typ.	max.
C _{ies}	V _{CE} = 25 V, V _{GE} = 0 V, f = 1 MHz		550	pF
C _{oes}			36	pF
C _{res}			5	pF
Q _g	I _C = 5 A, V _{CE} = 600 V, V _{GE} = 10 V	34		nC
t _{d(on)}	Inductive load, T _J = 125°C I _C = I _{C90} , V _{GE} = 10 V, L = 100 μH, V _{CE} = 960 V, R _G = 27 Ω		140	ns
t _{ri}			200	ns
t _{d(off)}			120	ns
t _{fi}			70	ns
R _{thJC}				1.25 K/W
R _{thCK}			0.25	K/W

Reverse Conduction

(T_J = 25°C, unless otherwise specified)

Symbol	Conditions	min.	typ.	max.
V _F	I _F = I _{C90} , V _{GE} = 0 V		3.6	5

TO-247 AD Outline



Dim.	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	19.81	20.32	0.780	0.800
B	20.80	21.46	0.819	0.845
C	15.75	16.26	0.610	0.640
D	3.55	3.65	0.140	0.144
E	4.32	5.49	0.170	0.216
F	5.4	6.2	0.212	0.244
G	1.65	2.13	0.065	0.084
H	-	4.5	-	0.177
J	1.0	1.4	0.040	0.055
K	10.8	11.0	0.426	0.433
L	4.7	5.3	0.185	0.209
M	0.4	0.8	0.016	0.031
N	1.5	2.49	0.087	0.102

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

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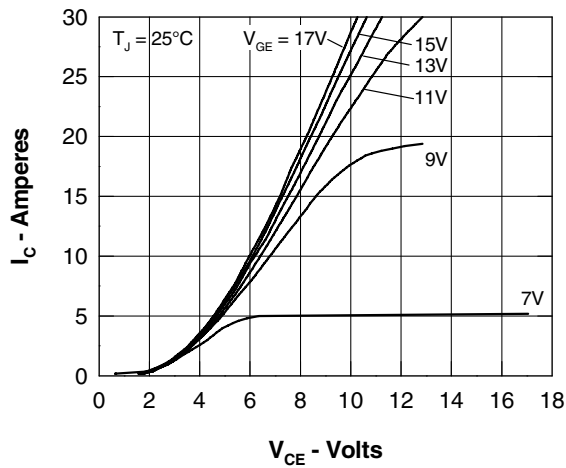


Fig. 1 Typ. Output Characteristics

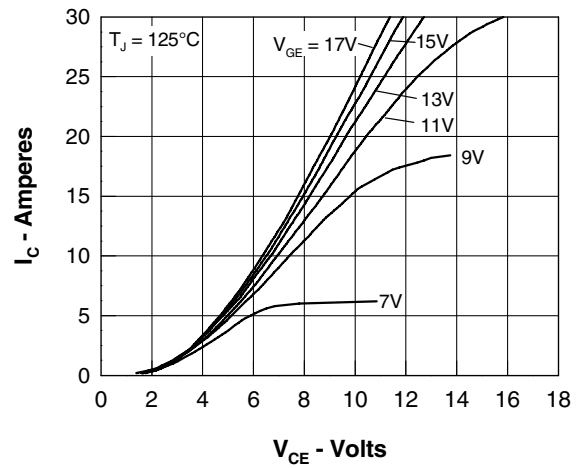


Fig. 2 Typ. Output Characteristics

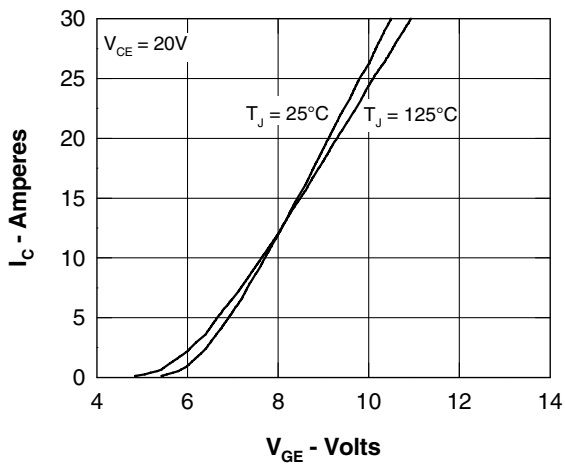


Fig. 3 Typ. Transfer Characteristics

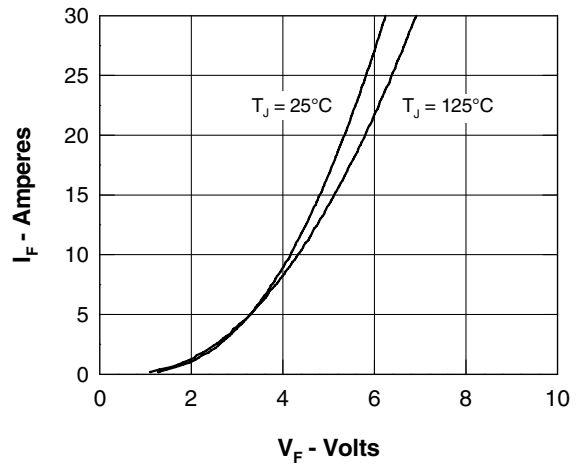


Fig. 4 Typ. Characteristics of Reverse Conduction

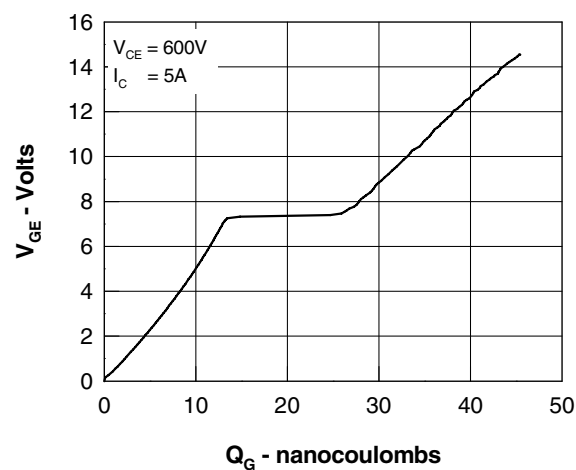


Fig. 5 Typ. Gate Charge characteristics

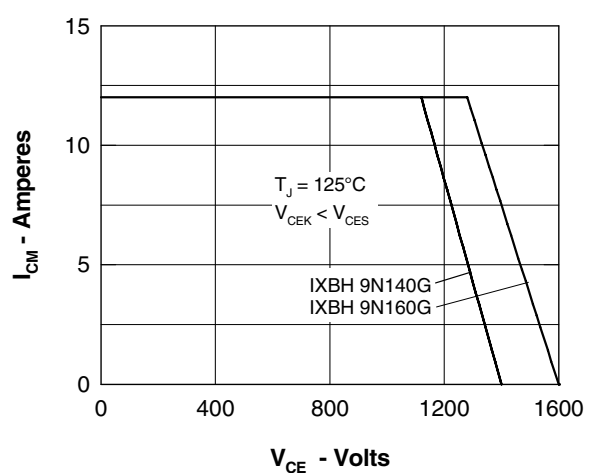


Fig. 6 Reverse Biased Safe Operating Area RBSOA

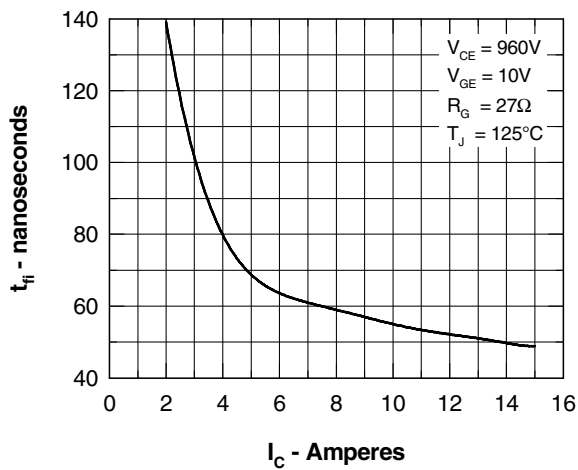


Fig. 7 Typ. Fall Time

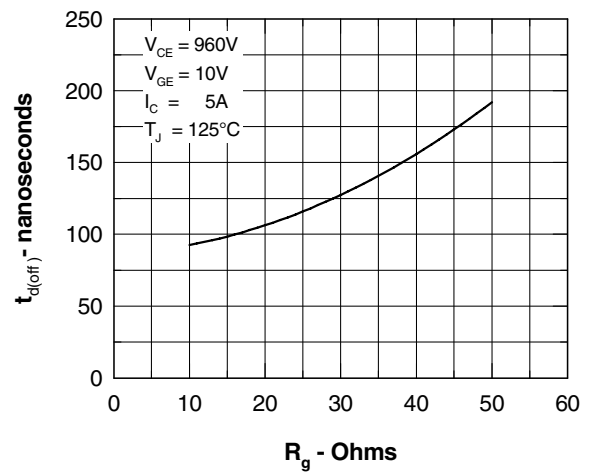


Fig. 8 Typ. Turn Off Delay Time

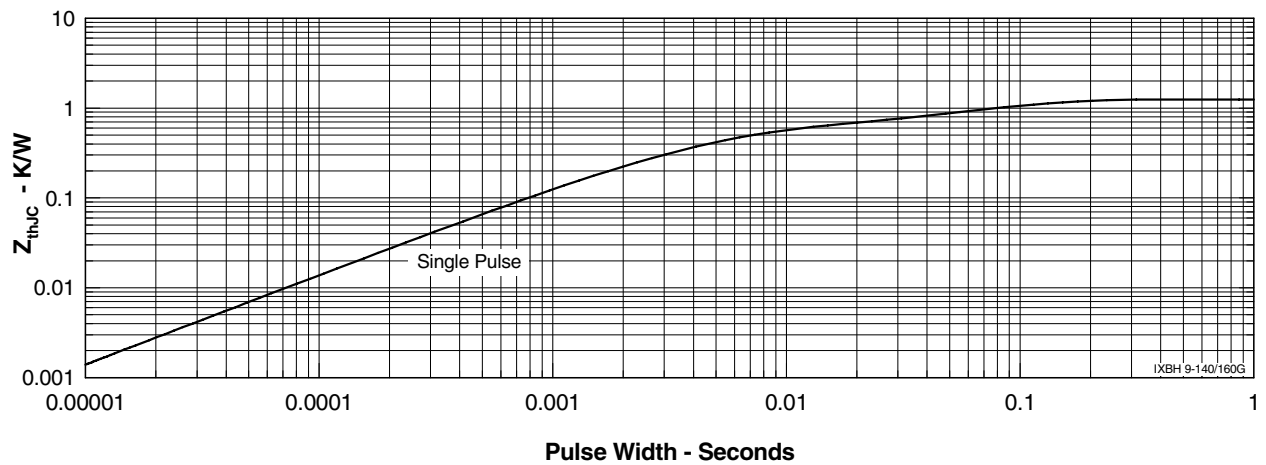


Fig. 9 Typ. Transient Thermal Impedance



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