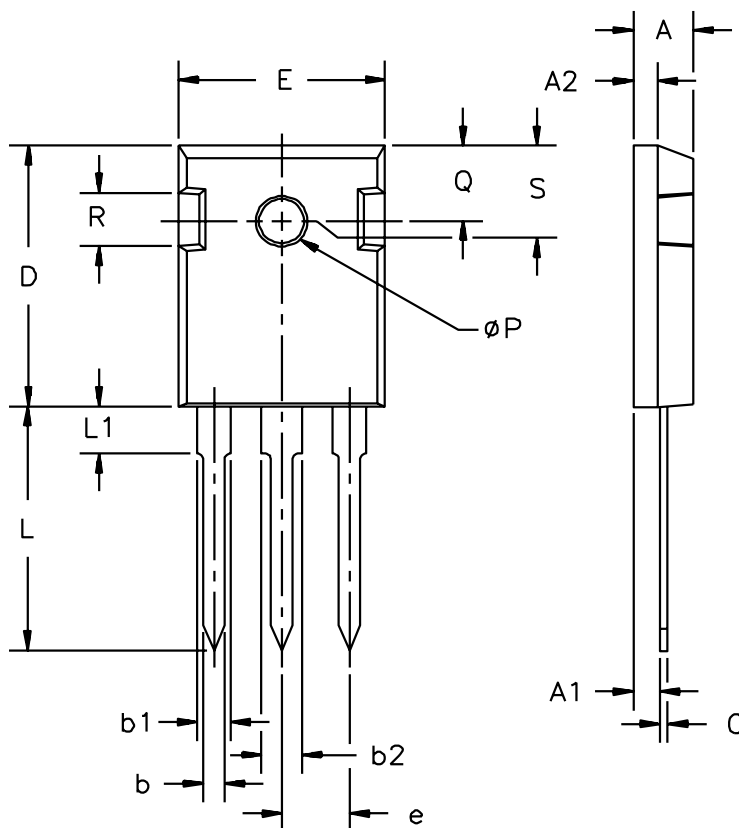


Symbol	Conditions	Characteristic Values		
		(T _J = 25°C, unless otherwise specified)		
		min.	typ.	max.
C_{ies} C_{oes} C_{res}	$V_{CE} = 25 \text{ V}, V_{GE} = 0 \text{ V}, f = 1 \text{ MHz}$		3300 220 30	pF pF pF
Q_g	$I_C = 20 \text{ A}, V_{CE} = 600 \text{ V}, V_{GE} = 15 \text{ V}$		130	nC
$t_{d(on)}$ t_{ri} $t_{d(off)}$ t_{fi}	Inductive load, T_J = 125°C $I_C = I_{C90}, V_{GE} = 15 \text{ V}, L = 100 \mu\text{H},$ $V_{CE} = 960 \text{ V}, R_G = 22 \Omega$		200 60 270 40	ns ns ns ns
R_{thJC} R_{thCK}			0.25	0.35 K/W K/W

Symbol	Conditions	Characteristic Values		
		(T _J = 25°C, unless otherwise specified)		
		min.	typ.	max.
V_F	$I_F = I_{C90}, V_{GE} = 0 \text{ V}, \text{Pulse test}$ $t \leq 300 \mu\text{s}, \text{duty cycle } d \leq 2\%$		2.5	5 V

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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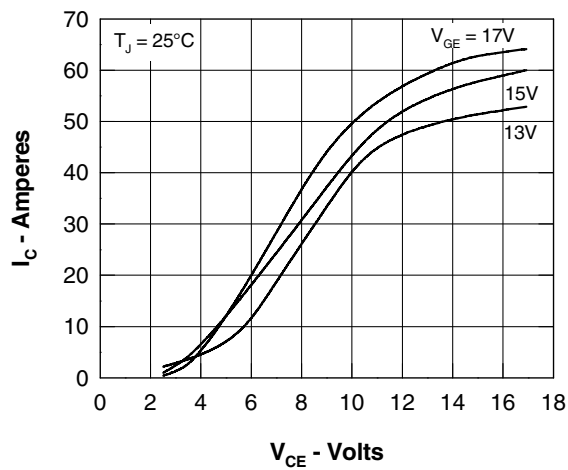


Fig. 1 Typ. Output Characteristics

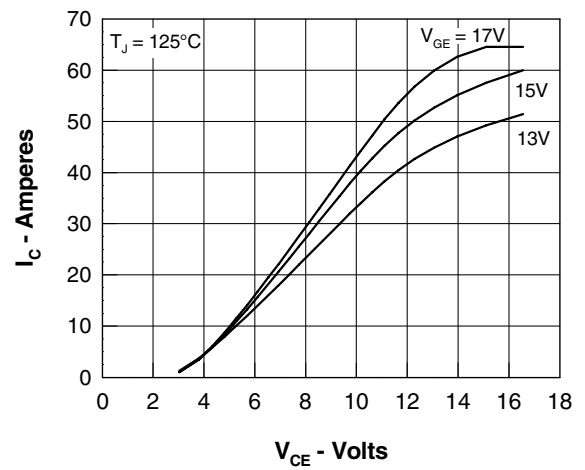


Fig. 2 Typ. Output Characteristics

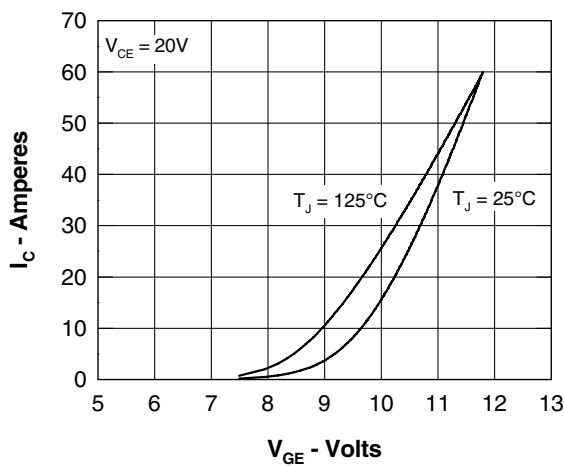


Fig. 3 Typ. Transfer Characteristics

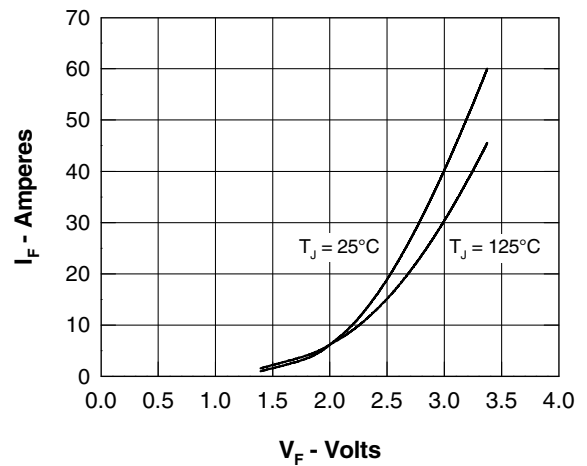


Fig. 4 Typ. Characteristics of Reverse Conduction

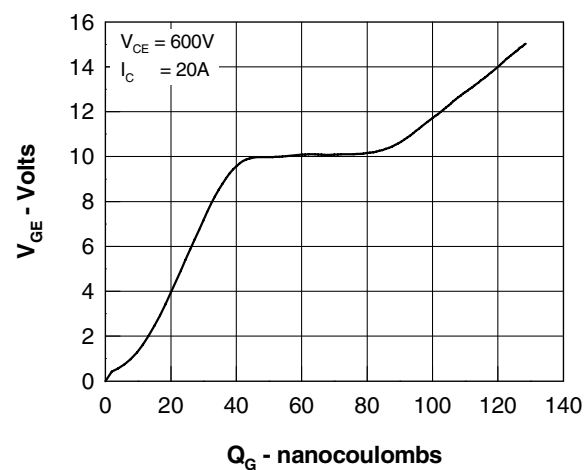


Fig. 5 Typ. Gate Charge characteristics

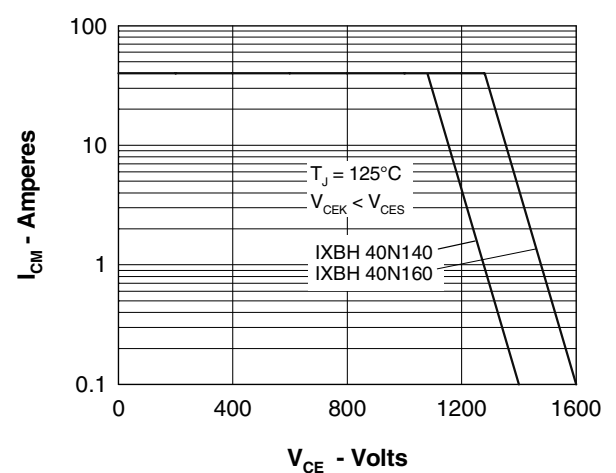


Fig. 6 Reverse Based Safe Operating Area RBSOA

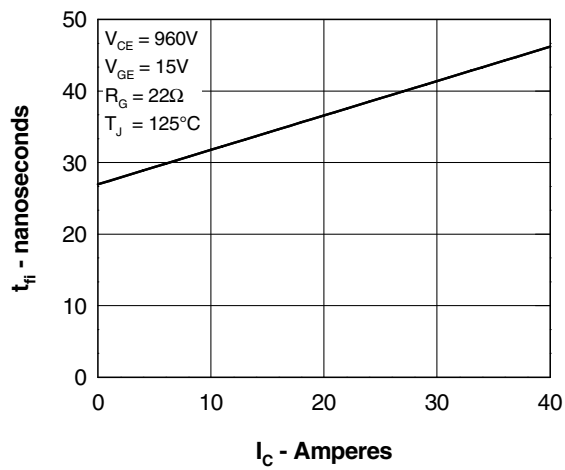


Fig. 7 Typ. Fall Time

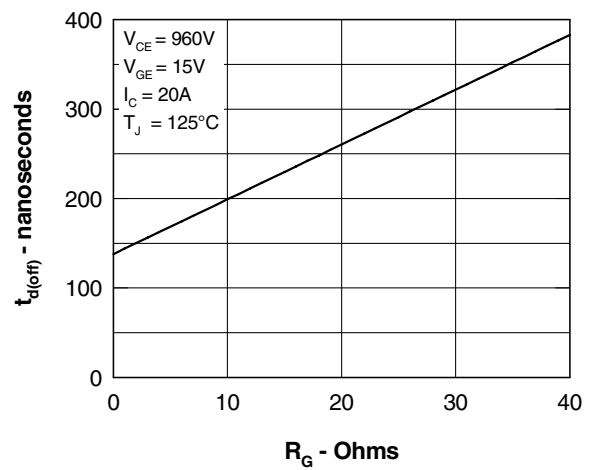


Fig. 8 Typ. Turn Off Delay Time

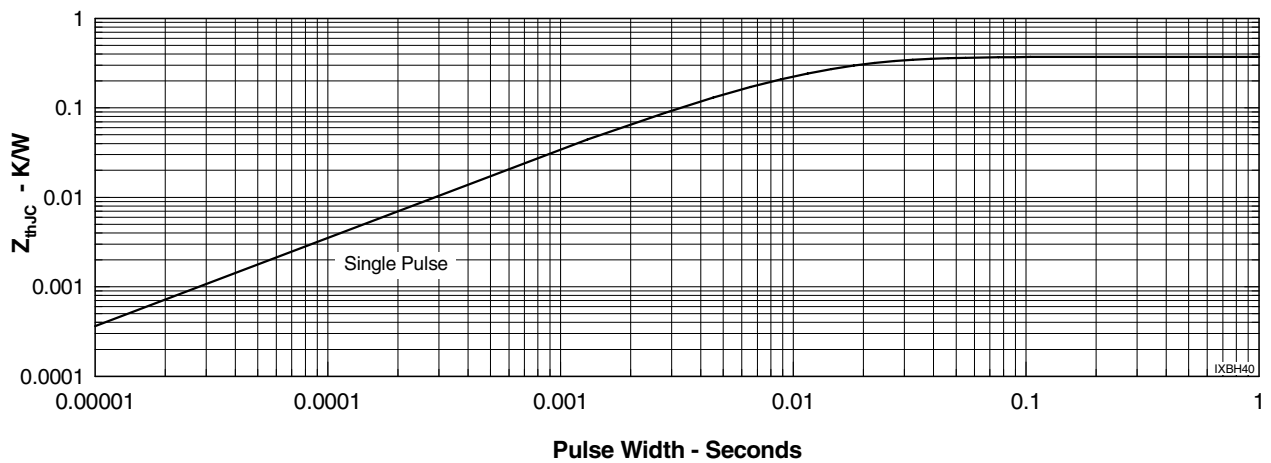


Fig. 9 Typ. Transient Thermal Impedance



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