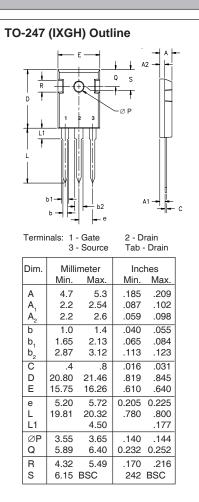


IXGH28N60B3D1

SymbolTest Conditions $(T_j = 25^{\circ}C, unless otherwise specified)$	Cha Min.	Characteristic Val Min. Typ. Ma			
\mathbf{g}_{fs} $\mathbf{I}_{C} = \mathbf{I}_{C110}, \mathbf{V}_{CE} = 10 \text{V}, \text{ Note 1}$	18	30	S		
C _{ies}		2320	pF		
C_{oes} $V_{CE} = 25V, V_{GE} = 0V, f = 1MHz$		176	pF		
C _{res}		24	pF		
ۄ۪		62	nC		
\mathbf{Q}_{ge} $\Big _{C} = I_{C110}, V_{GE} = 15V, V_{CE} = 0.5 \bullet V_{CE}$	S	11	nC		
Q _{gc}		23	nC		
t _{d(on)}		19	ns		
t		24	ns		
F Inductive load, $I_j = 25^{\circ}C$		0.34	mJ		
$\begin{bmatrix} -\sigma_n \\ t_{d(off)} \end{bmatrix}$ $\begin{bmatrix} I_c = 24A, V_{GE} = 15V \\ V_c = 400V, B = 100 \end{bmatrix}$		125	200 ns		
$V_{CE} = 400V, R_G = 10\Omega$ t_{fi}		100	160 ns		
E _{off}		0.65	1.2 mJ		
t _{d(on)}		19	ns		
t.		26	ns		
\mathbf{E}_{on}		0.6	mJ		
$t_{c} = 24A, V_{GE} = 15V$		180	ns		
t_{fi} $V_{CE} = 400V, R_G = 10\Omega$		170	ns		
E _{off}		1.0	mJ		
R _{thJC}			0.66 °C/W		
R _{thCS}		0.21	°C/W		



Reverse Diode (FRED)

	nbol Test Conditions = 25°C, unless otherwise specified)	Characteristic Values Min. Typ. Max.				
V _F	$I_{_{\rm F}}$ = 24A, $V_{_{\rm GE}}$ = 0V, Note 1 $T_{_{\rm J}}$ = 150°C			2.5 1.7	V V	
I _{RM}	$\begin{cases} I_{F} = 24A, V_{GE} = 0V, -di_{F}/dt = 100A/\mu s \\ V_{R} = 100V \end{cases}$		5		A	
t _{rr}	$I_{\rm F} = 1$ A, -di _F /dt =100A/µs, V _R = 30V		25		ns	
) T _J = 100°C		100		ns	
$R_{_{thJ}}$	c			1.0	K/W	

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

ADVANCE TECHNICAL INFORMATION

The product presented herein is under development. The Technical Specifications offered are derived from a subjective evaluation of the design, based upon prior knowledge and experience, and constitute a "considered reflection" of the anticipated result. IXYS reserves the right to change limits, test conditions, and dimensions without notice.

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IXYS MOSFETs and IGBTs are covered by one or moreof the following U.S. patents: 4	4,850,072	5,017,508	5,063,307	5,381,025	6,259,123 B1		6,683,344 6,710,405 B2 6,710,463	6,759,692	, ,	, - ,
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