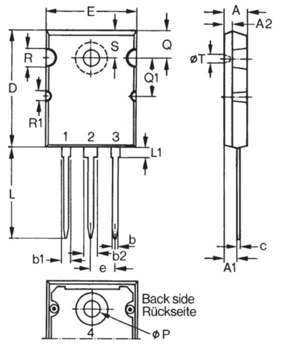
Symbol	Test Conditions	Min.	Typ.	Max.	
	Characteristic Values (T_J = 25° C, unless otherwise specified)				
g_{fs}	V_{DS}= 10 V; I_D = 0.5 I_{D25}, pulse test	45	57		S
C_{iss}	V_{GS} = 0 V, V_{DS} = 25 V, f = 1 MHz		7500		pF
C_{oss}			1150		pF
C_{rss}			230		pF
$t_{d(on)}$	V_{GS} = 10 V, V_{DS} = 0.5 V_{DSS}, I_D = 60 A R_G = 3.3 Ω (External)		30		ns
t_r			28		ns
$t_{d(off)}$			130		ns
t_f			30		ns
$Q_{g(on)}$	V_{GS}= 10 V, V_{DS} = 0.5 V_{DSS}, I_D = 0.5 I_{D25}		224		nC
Q_{gs}			50		nC
Q_{gd}			110		nC
R_{thJC}				0.18	° C/W
R_{thCS}			0.15		° C/W

Source-Drain Diode

Symbol	Test Conditions	Min.	Typ.	Max.	
	Characteristic Values (T_J = 25° C, unless otherwise specified)				
I_S	V_{GS} = 0 V			102	A
I_{SM}	Repetitive			250	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			200	ns
Q_{RM}			0.8		μC

TO-264 Outline



Dim.	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	4.82	5.13	.190	.202
A1	2.54	2.89	.100	.114
A2	2.00	2.10	.079	.083
b	1.12	1.42	.044	.056
b1	2.39	2.69	.094	.106
b2	2.90	3.09	.114	.122
c	0.53	0.83	.021	.033
D	25.91	26.16	1.020	1.030
E	19.81	19.96	.780	.786
e	5.46 BSC		.215 BSC	
J	0.00	0.25	.000	.010
K	0.00	0.25	.000	.010
L	20.32	20.83	.800	.820
L1	2.29	2.59	.090	.102
P	3.17	3.66	.125	.144
Q	6.07	6.27	.239	.247
Q1	8.38	8.69	.330	.342
R	3.81	4.32	.150	.170
R1	1.78	2.29	.070	.090
S	6.04	6.30	.238	.248
T	1.57	1.83	.062	.072

PRELIMINARY TECHNICAL INFORMATION

The product presented herein is under development. The Technical Specifications offered are derived from data gathered during objective characterizations of preliminary engineering lots; but also may yet contain some information supplied during a pre-production design evaluation. IXYS reserves the right to change limits, test conditions, and dimensions without notice.

IXYS MOSFETs and IGBTs are covered by one or moreof the following U.S. patents:								
	4,835,592	4,931,844	5,049,961	5,237,481	6,162,665	6,404,065 B1	6,683,344	6,727,585
	4,850,072	5,017,508	5,063,307	5,381,025	6,259,123 B1	6,534,343	6,710,405B2	6,759,692
	4,881,106	5,034,796	5,187,117	5,486,715	6,306,728 B1	6,583,505	6,710,463	6,771,478 B2

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