

Symbol	Test Conditions		Characteristic Values (T _J = 25°C, unless otherwise specified)		
			min.	typ.	max.
g_{fs}	V _{DS} = 10 V; I _D = 0.5 • I _{D25}	Note 1	20	27	S
C_{iss}	V _{GS} = 0 V, V _{DS} = 25 V, f = 1 MHz			7600	pF
C_{oss}				750	pF
C_{rss}				120	pF
t_{d(on)}	V _{GS} = 10 V, V _{DS} = 0.5 • V _{DSS} , I _D = 0.5 • I _{D25} R _G = 1 Ω (External),			20	ns
t_r				28	ns
t_{d(off)}				50	ns
t_f				13	ns
Q_{g(on)}	V _{GS} = 10 V, V _{DS} = 0.5 • V _{DSS} , I _D = 0.5 • I _{D25}			170	nC
Q_{gs}				47	nC
Q_{gd}				65	nC
R_{thJC}				0.26	K/W
R_{thCK}				0.15	K/W

Source-Drain Diode		Characteristic Values (T _J = 25°C, unless otherwise specified)		
Symbol	Test Conditions	min.	typ.	max.
I_S	V _{GS} = 0 V			27 A
I_{SM}	Repetitive; pulse width limited by T _{JM}			108 A
V_{SD}	I _F = I _S , V _{GS} = 0 V, Note 1			1.5 V
t_{rr}	I _F = I _S , -di/dt = 100 A/μs, V _R = 100 V		1.3	250 ns
Q_{RM}				μC
I_{RM}				8 A

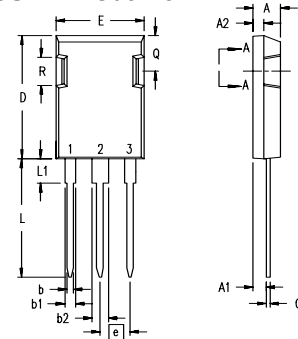
Note: 1. Pulse test, t ≤ 300 μs, duty cycle d ≤ 2 %

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

IXYS MOSFETs and IGBTs are covered by one or more of the following U.S. patents:

4,835,592	4,881,106	5,017,508	5,049,961	5,187,117	5,486,715	6,306,728B1
4,850,072	4,931,844	5,034,796	5,063,307	5,237,481	5,381,025	

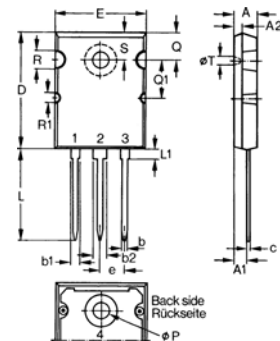
PLUS 247™ Outline



Terminals: 1 - Gate
2 - Drain (Collector)
3 - Source (Emitter)
4 - Drain (Collector)

Dim.	Millimeter Min. Max.	Inches Min. Max.
A	4.83 5.21	.190 .205
A ₁	2.29 2.54	.090 .100
A ₂	1.91 2.16	.075 .085
b	1.14 1.40	.045 .055
b ₁	1.91 2.13	.075 .084
b ₂	2.92 3.12	.115 .123
C	0.61 0.80	.024 .031
D	20.80 21.34	.819 .840
E	15.75 16.13	.620 .635
e	5.45 BSC	.215 BSC
L	19.81 20.32	.780 .800
L1	3.81 4.32	.150 .170
Q	5.59 6.20	.220 0.244
R	4.32 4.83	.170 .190

TO-264 AA Outline



Dim.	Millimeter Min. Max.	Inches Min. Max.
A	4.82 5.13	.190 .202
A ₁	2.54 2.89	.100 .114
A ₂	2.00 2.10	.079 .083
b	1.12 1.42	.044 .056
b ₁	2.39 2.69	.094 .106
b ₂	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



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