

Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	1,000	V
RMS Reverse Voltage	V _{R(RMS)}	700	V
Average Rectified Output Current @T _C = +120°C	I _O	1.2	A
Non-Repetitive Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	45	A

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Ambient (Note 5)	R _{θJA}	70	°C/W
Typical Thermal Resistance, Junction to Case	R _{θJC}	10	°C/W
Typical Thermal Resistance, Junction to Lead	R _{θJL}	30	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	V _{(BR)R}	1,000	—	—	V	I _R = 5μA
Forward Voltage	V _F	—	0.9 1.0	1.1 1.2	V	I _F = 0.6A I _F = 1.2A
Leakage Current (Note 6)	I _R	—	—	5 500	μA	V _R = 1,000V, T _A = +25°C V _R = 1,000V, T _A = +125°C
Typical Total Capacitance	C _T	—	30	—	pF	V _R = 4V, f = 1.0MHz

Notes: 5. Device mounted on glass-epoxy substrate with 1 oz 20mm x 20mm Cu pad per pin.
6. Short duration pulse test used to minimize self-heating effect.

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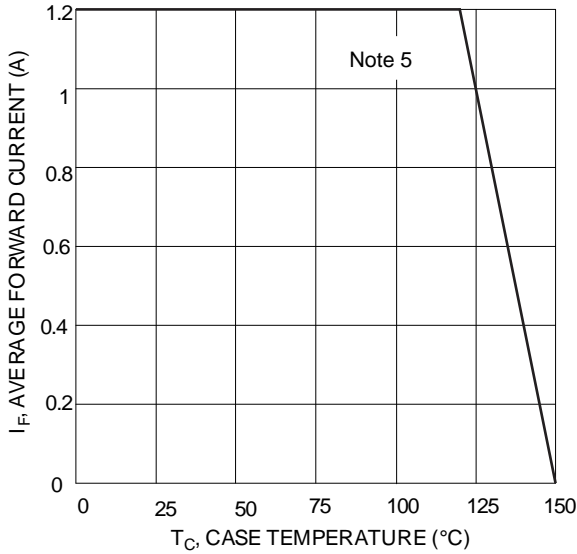


Figure 1 Forward Current Derating Curve

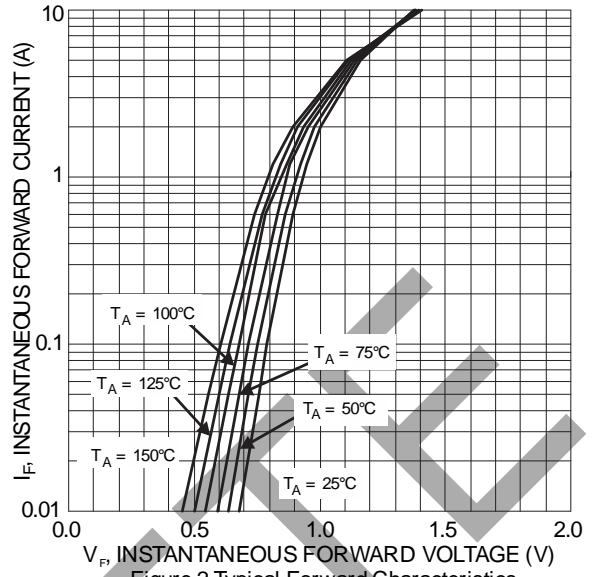


Figure 2 Typical Forward Characteristics

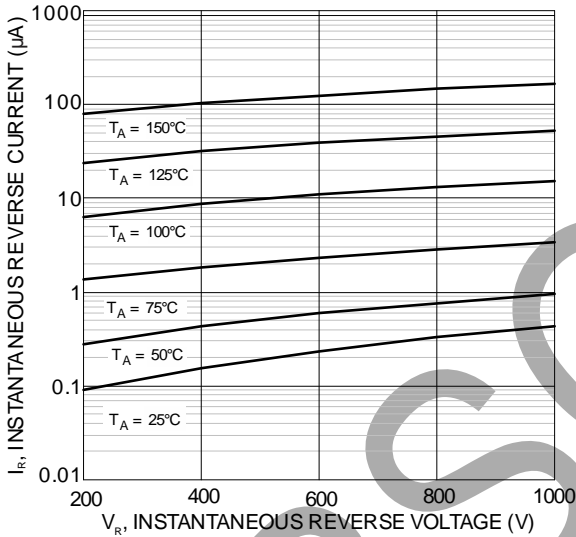


Figure 3 Typical Reverse Characteristics

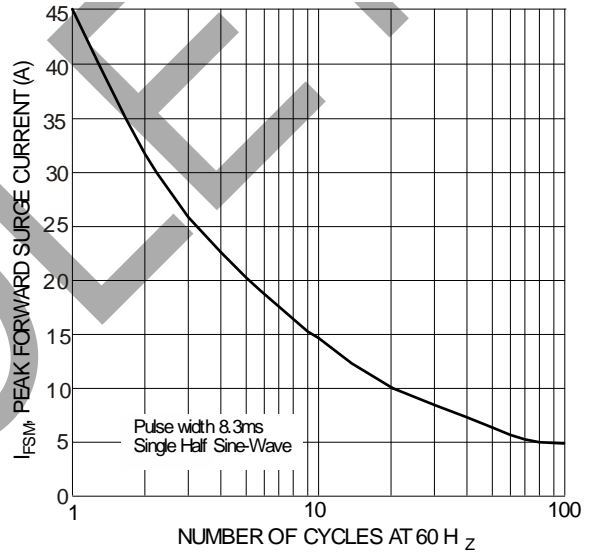


Figure 4 Forward Surge Current Derating Curve

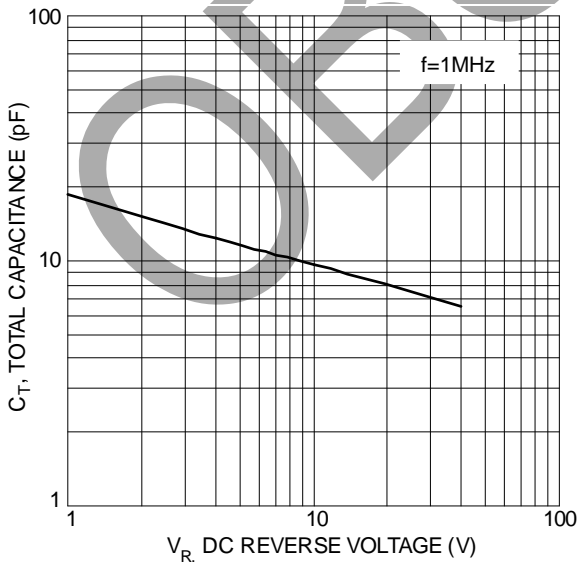
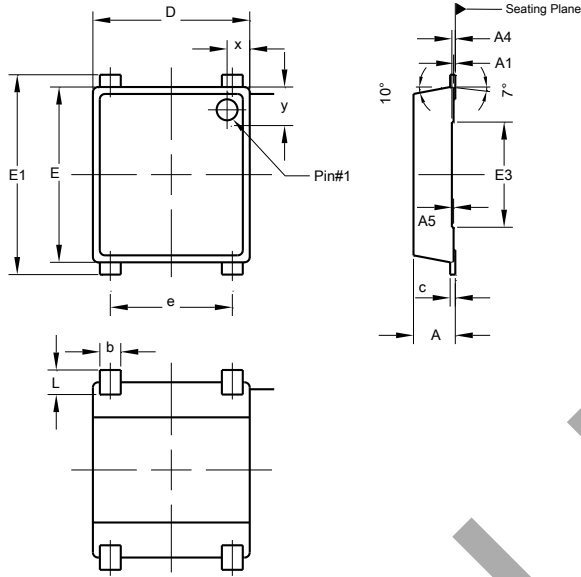


Figure 5 Total Capacitance vs. Reverse Voltage

Package Outline Dimensions

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

MSB

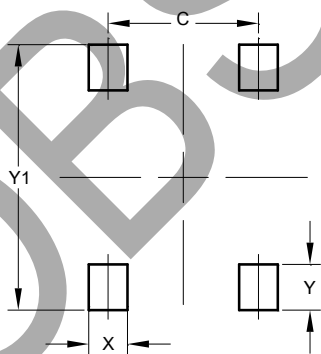


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Dim	Min	Max	Typ
A	1.10	1.30	1.20
A1	0.00	0.05	0.02
A4	0.05	0.08	-
A5	0.03	0.08	0.05
b	0.55	0.70	0.60
c	0.12	0.18	0.15
D	4.40	4.60	4.50
E	4.90	5.10	5.00
E1	5.60	5.80	5.70
E3	2.95	3.05	3.00
e	3.45	3.55	3.50
L	0.65	0.75	0.70
x	0.60	0.70	0.65
y	0.60	0.70	0.65
All Dimensions in mm			

Suggested Pad Layout

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

MSB



Dimensions	Value (in mm)
C	3.55
X	0.90
Y	1.05
Y1	6.10

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