

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

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

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	1000	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _{RM}		
Average Rectified Output Current	I _O	1.0	A
Non-Repetitive Peak Forward Surge Current	I _{FSM}	30	A
8.3ms Single Half Sine-Wave Superimposed on Rated Load (Per Diode)			
I ² t Rating for fusing (t<8.3ms)	I ² t	3.735	A

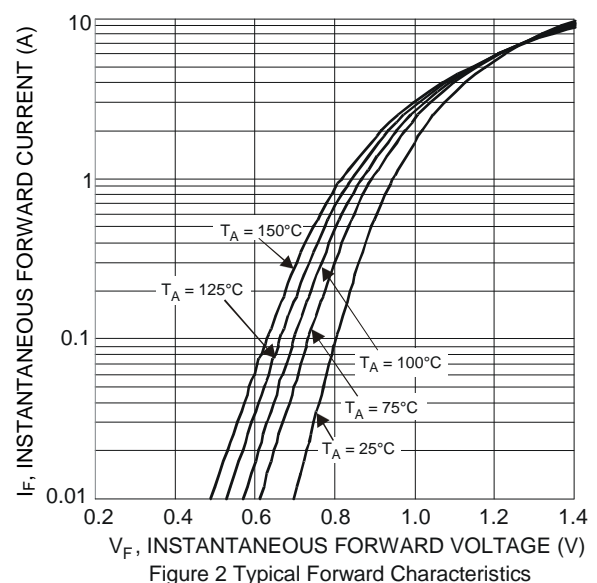
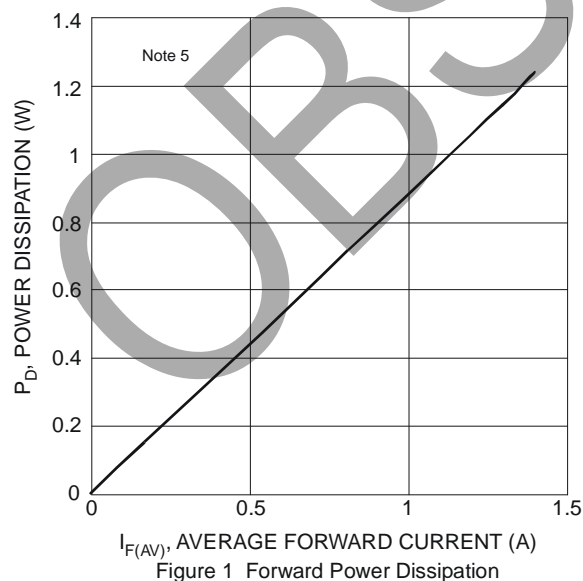
Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Ambient (Note 5)	R _{θJA}	107	°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	Typ	Max	Unit	Test Condition
Forward Voltage (Per Diode)	V _F	0.88	0.95	V	I _F = 0.4A, T _J = +25°C
		0.92	1.15		I _F = 1.0A, T _J = +25°C
Reverse Current (Note 6) (Per Diode)	I _R	0.08	10	μA	V _R = 1000V, T _J = +25°C
		5	150		V _R = 1000V, T _J = +125°C
Typical Junction Capacitance	C _J	10	-	pF	V _R = 4V, f = 1MHz

Notes: 5. Device mounted on FR-4 substrate, 1.0"x1.0", 2oz, single-sided, PC boards with 0.2"x0.25" copper pad.
 6. Short duration pulse test used to minimize self-heating effect.



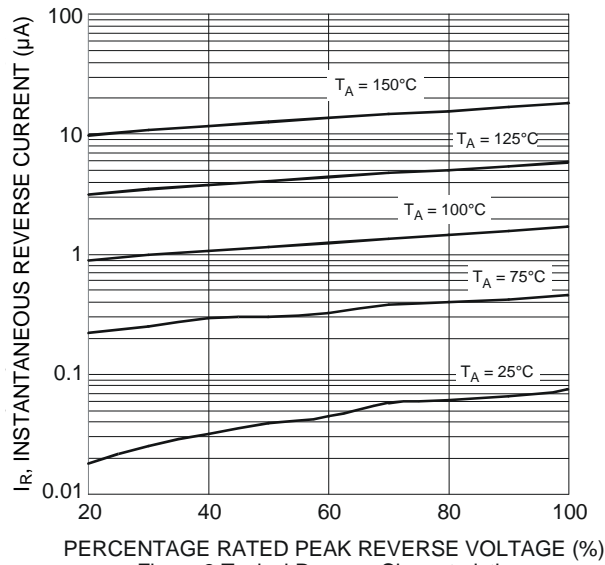


Figure 3 Typical Reverse Characteristics

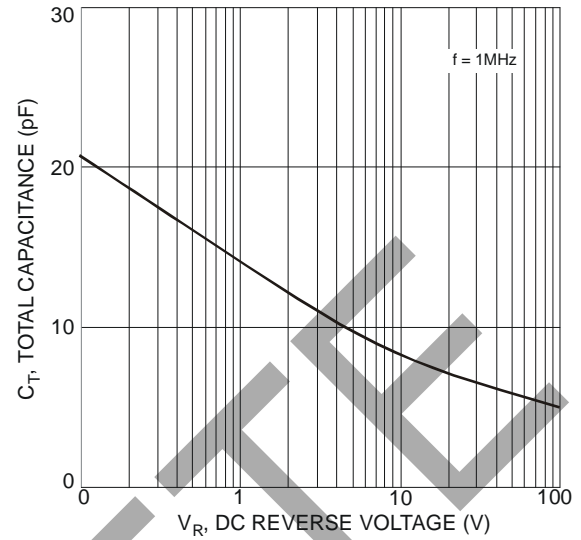


Figure 4 Total Capacitance vs. Reverse Voltage

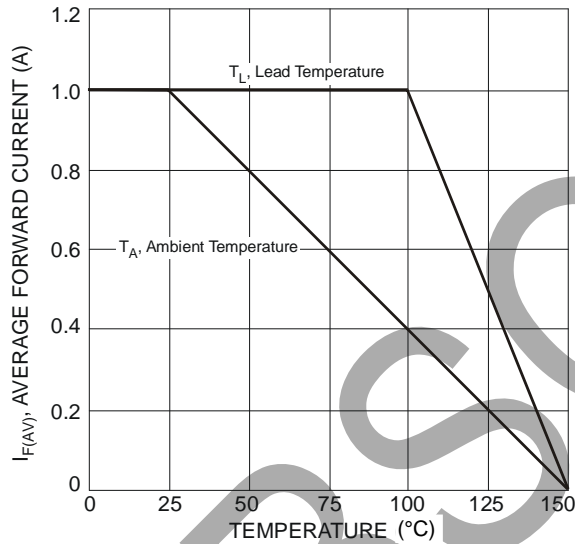


Figure 5 Forward Current Derating Curve

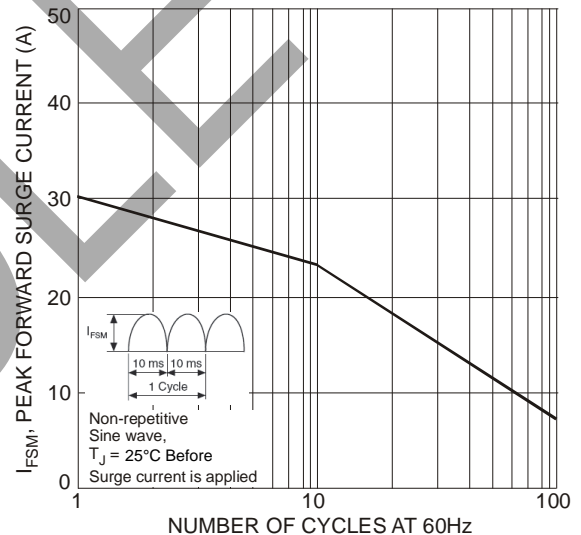
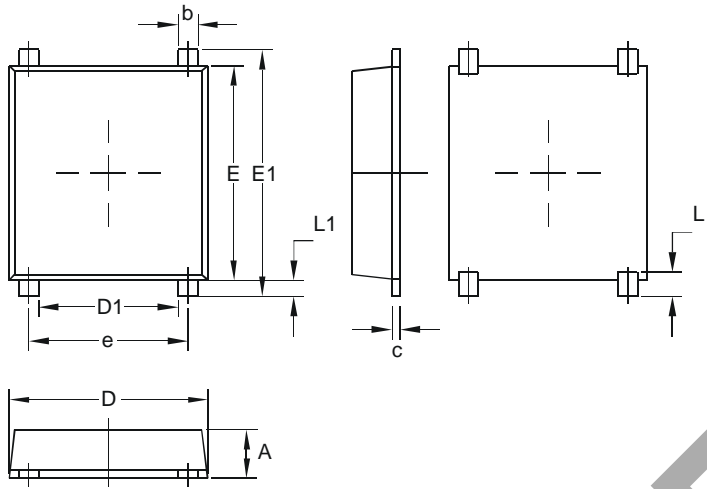


Figure 6 Max Non-Repetitive Surge Current

Package Outline Dimensions

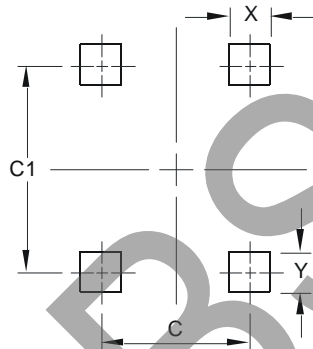
Please see <http://www.diodes.com/package-outlines.html> for the latest version.



T-MiniDIP		
Dim	Min	Max
A	1.15	1.27
b	0.60	0.70
c	0.15	0.25
D	4.90	5.10
D1	3.20	3.50
E	5.30	5.50
E1	6.00	6.40
e	3.90	4.10
L	0.25	0.80
L1	0.25	0.55
All Dimensions in mm		

Suggested Pad Layout

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



Dimensions	Value (in mm)
C	4.00
C1	5.60
X	0.75
Y	0.85

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