

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 Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	60	V
Average Rectified Output Current @ T _T = +100°C	I _O	3.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	80	A

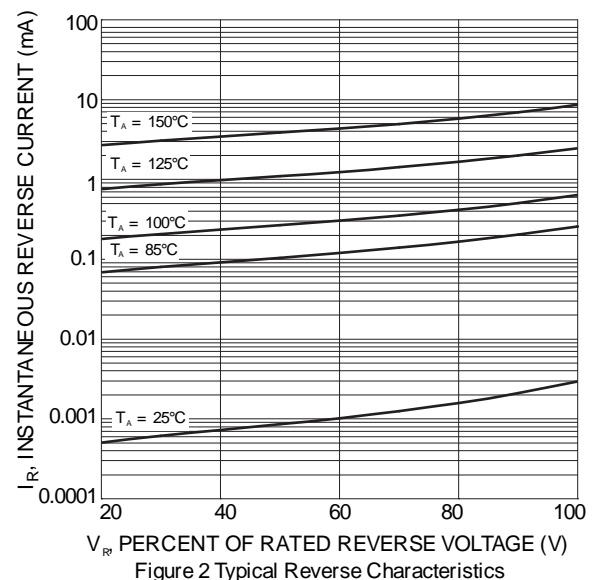
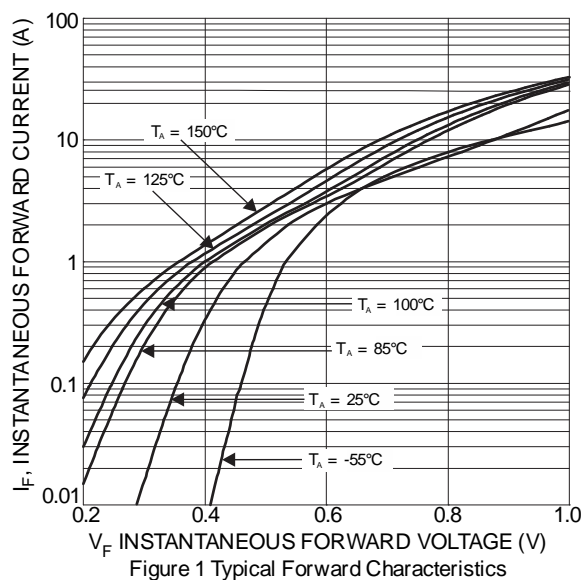
Thermal Characteristics

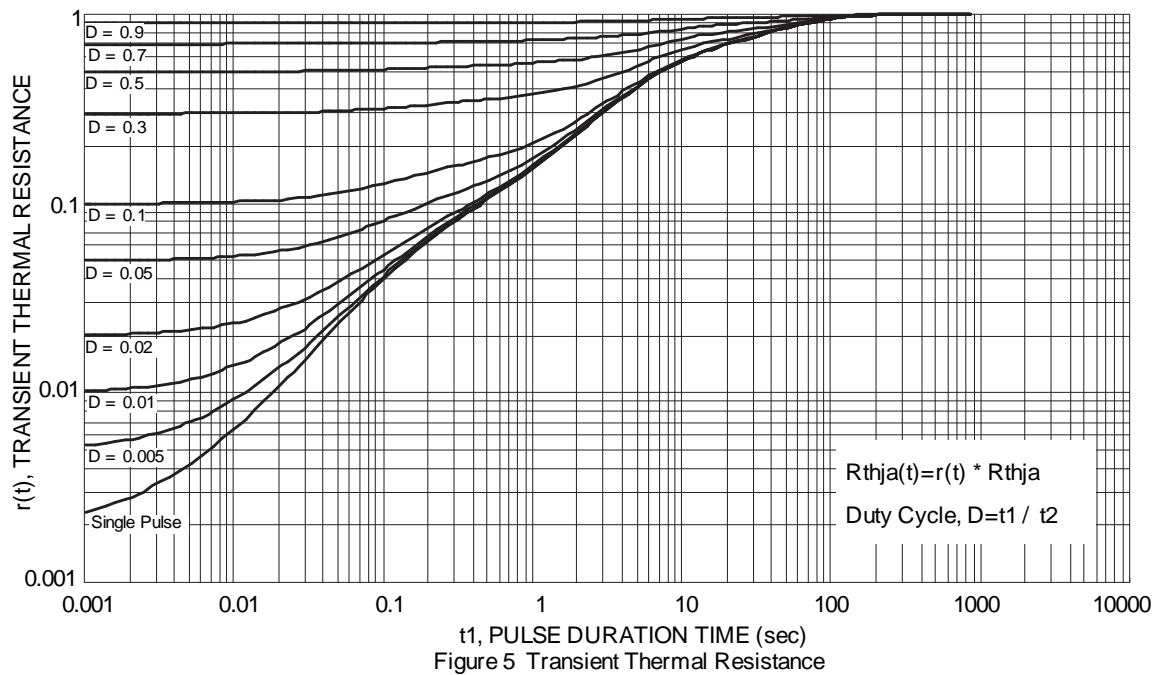
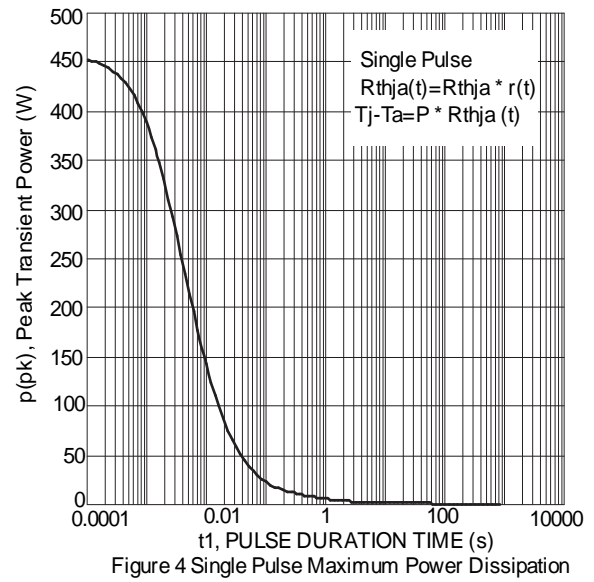
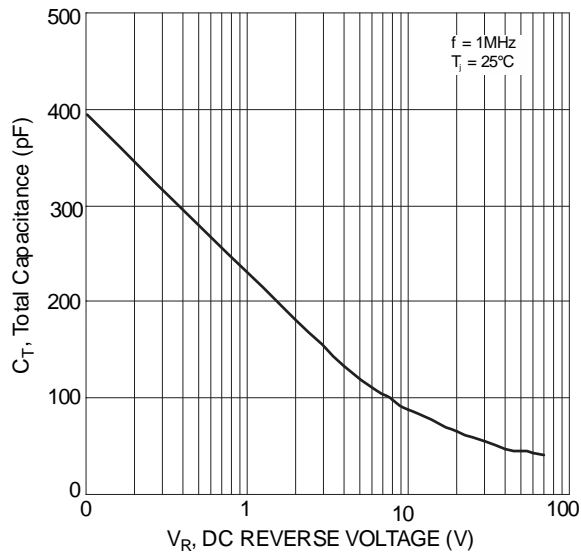
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Ambient (Note 5)	R _{θJA}	100	°C/W
Typical Thermal Resistance, Junction to Lead (Note 5)	R _{θJL}	30	°C/W
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

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

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage Drop	V _F	—	0.60	0.70	V	I _F = 3.0A, T _A = +25°C
		—	0.54	—		I _F = 3.0A, T _A = +125°C
Leakage Current (Note 6)	I _R	—	0.003	0.10	mA	V _R = 60V, T _A = +25°C
		—	2.4	—		V _R = 60V, T _A = +125°C
Total Capacitance	C _T	—	130	—	pF	V _R = 4V, f = 1MHz

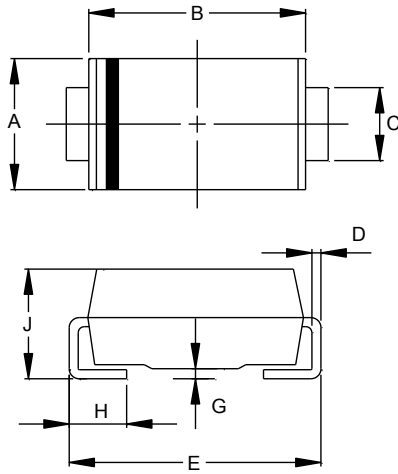
Notes: 5. Device mounted on FR-4 PCB, 1" x 1" sq. inch, 2 oz Cu single-side with 0.1" x 0.15" sq. inch copper pad.
 6. Short duration pulse test used to minimize self-heating effect.





Package Outline Dimensions

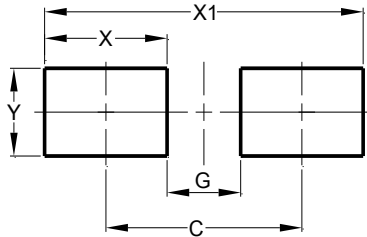
Please see AP02002 at <http://www.diodes.com/datasheets/ap02002.pdf> for latest version.



SMA		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.05	0.20
H	0.76	1.52
J	1.96	2.40
All Dimensions in mm		

Suggested Pad Layout

Please see AP02001 at <http://www.diodes.com/datasheets/ap02001.pdf> for the latest version.



Dimensions	Value (in mm)
C	4.00
G	1.50
X	2.50
X1	6.50
Y	1.70

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