

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 _{RM}	100	>
Average Rectified Output Current	I _O	2	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	75	А

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Ambient (Note 5)	$R_{\theta JA}$	90	°C/W
Typical Thermal Resistance Junction to Case (Note 5)	$R_{\theta JC}$	23	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

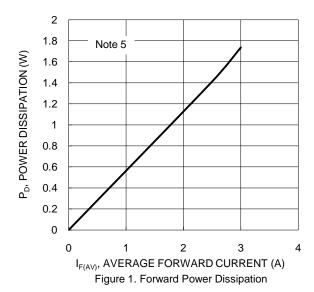
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

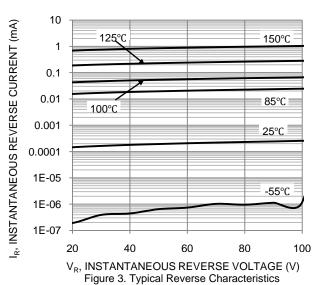
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	V _F	1 1	0.75 0.60	0.79 0.65	٧	$I_F = 2A, T_J = +25$ °C $I_F = 2A, T_J = +125$ °C
Leakage Current (Note 6)	I _R	1 1		10 2	μA mA	V _R = 100V, T _J = +25°C V _R = 100V, T _J = +125°C

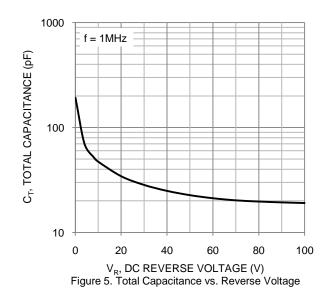
Notes:

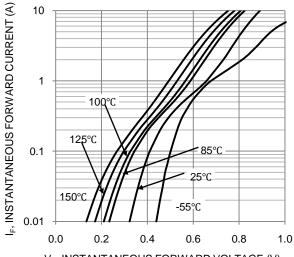
- 5. Device mounted on FR-4 substrate, 0.4" x 0.5", 2oz, single-sided, PC boards with 0.2" x 0.25" copper pad.
- 6. Short duration pulse test used to minimize self-heating effect.



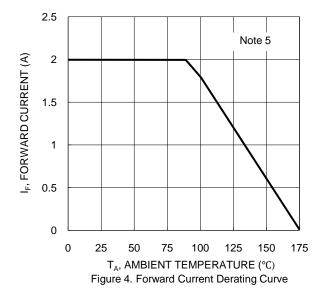








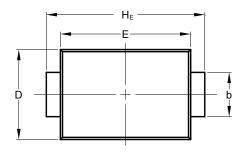
V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Figure 2. Typical Forward Characteristics

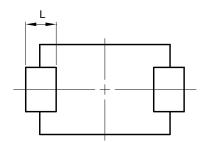


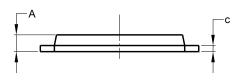


Package Outline Dimensions

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



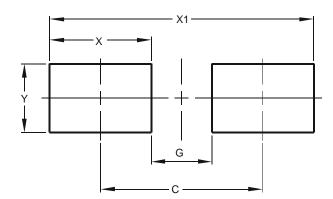




SMAF				
Dim	Min	Max		
Α	0.90	1.10		
b	1.25	1.65		
С	0.10	0.40		
D	2.25	2.95		
Е	3.95	4.60		
HE	4.80	5.60		
L	0.50	1.50		
All Dimensions in mm				

Suggested Pad Layout

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



Dimensions	Value (in mm)
С	4.00
G	1.50
X	2.50
X1	6.50
٧	1.70



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