

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

Single phase, half wave, 60Hz, resistive or inductive load.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _{RM}	40	V
Average Rectified Output Current (See Figure 1)	lo	3.0	A
Non-Repetitive Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	IFSM	50	A

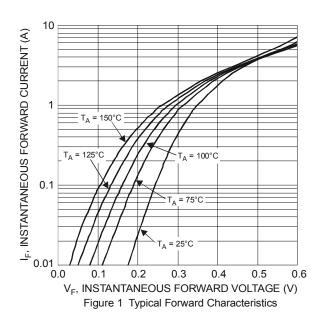
Thermal Characteristics

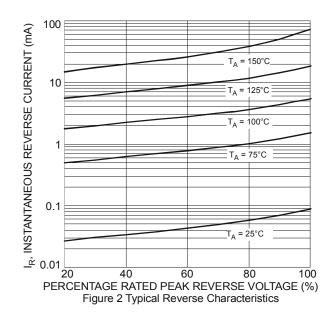
Characteristic	Symbol	Value	Unit
Thermal Resistance Junction to Case (Note 5)	R _{θJC}	15	°C/W
Thermal Resistance Junction to Ambient (Note 5)	R _{0JA}	85	C/VV
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

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

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	VF	_	0.46	0.53	V	I _F = 3.0A, T _J = +25°C
Leakage Current (Note 6)	I _R	_	_	0.4	mA	V _R = 40V, T _J = +25°C
		_	_	80	mA	V _R = 40V, T _J = +125°C

Notes: 5. Device mounted on FR-4 substate, 1"*1", 2oz, single-sided, PC boards with 0.1"*0.15" copper pad. 6. Short duration pulse test used to minimize self-heating effect.

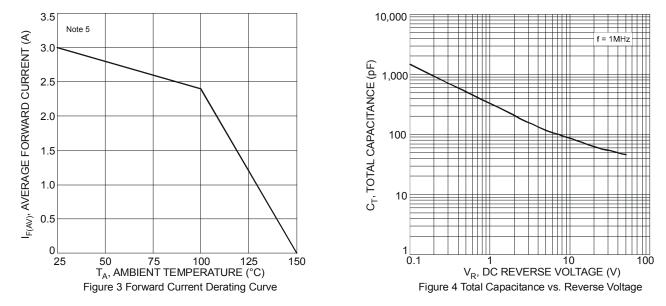




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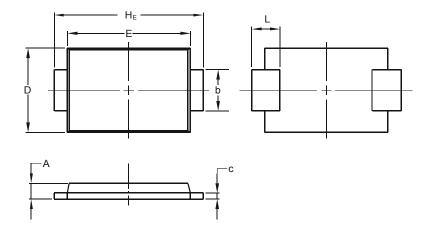


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Package Outline Dimensions

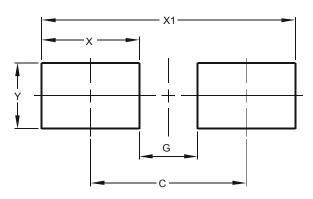
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for latest version.



SMAF				
Dim	Min	Max		
Α	0.90	1.10		
b	1.25	1.65		
С	0.10	0.40		
D	2.25	2.95		
ш	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
Х	2.50
X1	6.50
Y	1.70

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