

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}	45	V
Average Rectified Output Current	lo	3	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	50	А

Thermal Characteristics

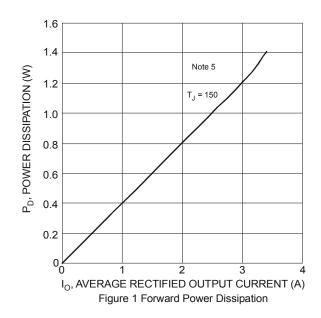
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Ambient (Note 5)	R _{0JA}	66	°C/W
Typical Thermal Resistance Junction to Case (Note 5)	$R_{\theta JC}$	30	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

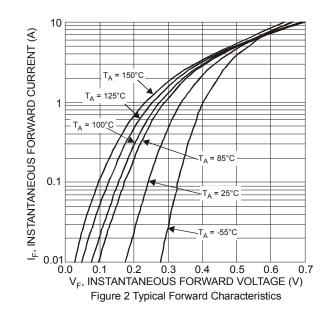
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	V _F	_	0.42	0.48	V	I _F = 3A, T _J = +25°C
Torward Voltage Brop	٧F	_	_	0.46	V	$I_F = 3A$, $T_J = +125$ °C
Leakage Current (Note 6)	_	30	150	μA	$V_R = 45V, T_J = +25^{\circ}C$	
	_	_	40	mA	$V_R = 45V, T_J = +125$ °C	

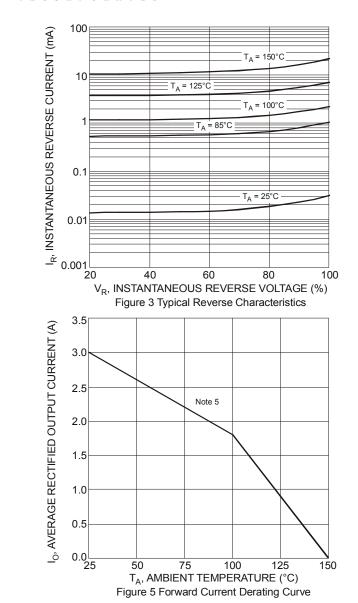
Notes:

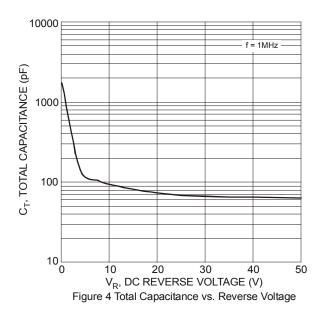
- $5. \ \, \text{Device mounted on FR-4 substate, } 0.4\text{"*}0.5\text{"}, 2\text{oz, single-sided, PC boards with } 0.2\text{"*}0.25\text{" copper pad.}$
- 6. Short duration pulse test used to minimize self-heating effect.





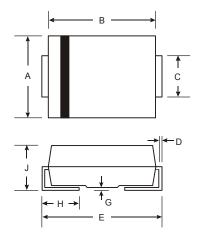






Package Outline Dimensions

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

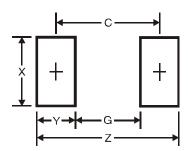


SMA			
Dim	Min	Max	
Α	2.29	2.92	
В	4.00	4.60	
C	1.27	1.63	
D	0.15	0.31	
Е	4.80	5.59	
G	0.05	0.20	
Н	0.76	1.52	
7	2.01	2.30	
All Dimensions in mm			



Suggested Pad Layout

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



Dimensions	Value (in mm)
Z	6.5
G	1.5
Х	1.7
Y	2.5
С	4.0

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