

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 _{RM}	40	V
Average Rectified Output Current	Io	3	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	70	Α

Thermal Characteristics

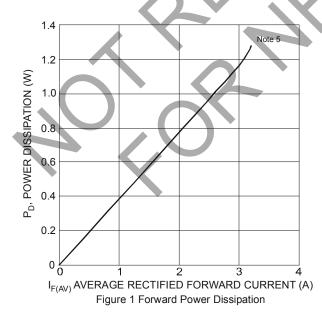
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Ambient (Note 5)	$R_{\theta JA}$	64	°C/W
Typical Thermal Resistance Junction to Case (Note 5)	$R_{ heta JC}$	37	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

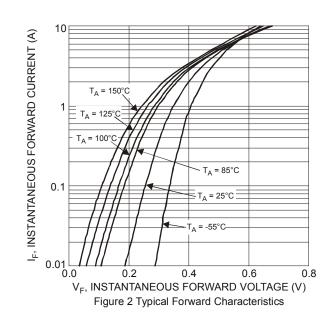
Electrical Characteristics (@TA = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	V_{F}		0.46 0.39	0.53 —	V	I _F = 3A, T _J = +25°C I _F = 3A, T _J = +125°C
Leakage Current (Note 6)	IR)	15 —	70 20	•	$V_R = 40V, T_J = +25^{\circ}C$ $V_R = 40V, T_J = +125^{\circ}C$

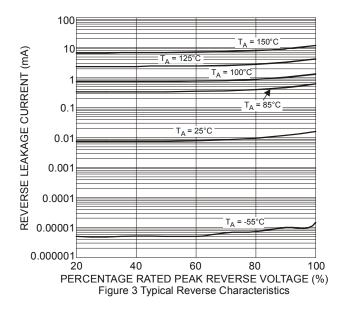
Notes:

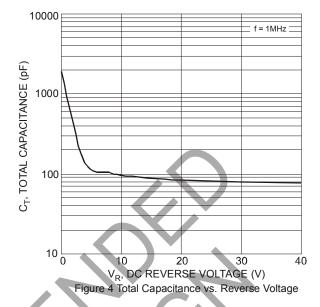
- 5. Device mounted on FR-4 substate, 0.4"*0.5", 2oz, single-sided, PC boards with 0.2"*0.25" copper pad. 6. Short duration pulse test used to minimize self-heating effect.

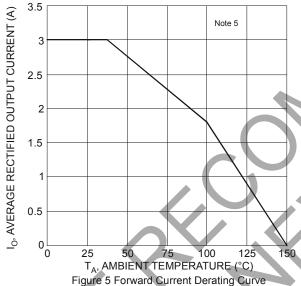






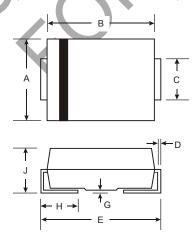






Package Outline Dimensions

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

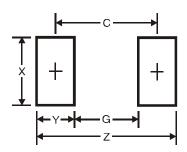


SMA		
Dim	Min	Max
Α	2.29	2.92
В	4.00	4.60
С	1.27	1.63
D	0.15	0.31
Е	4.80	5.59
G	0.05	0.20
Н	0.76	1.52
J	2.01	2.30
All Dimensions in mm		



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
_	10



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