

### **Maximum Ratings** @T<sub>A</sub> = 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 <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	150	<b>V</b>
Average Rectified Output Current @ T <sub>T</sub> =100°C	Ιο	3.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	80	A

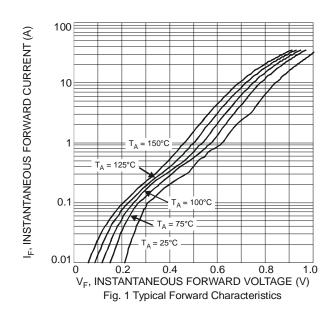
### **Thermal Characteristics**

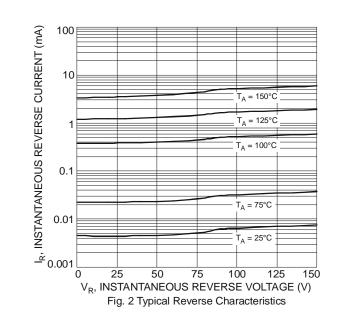
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Ambient (Note 4)	$R_{ heta JA}$	104	°C/W
Operating Temperature Range	TJ	150	-C/vv
Storage Temperature Range	T <sub>STG</sub>	-65+150	°C

## Electrical Characteristics @TA = 25°C unless otherwise specified

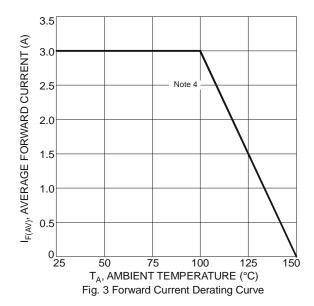
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop V <sub>F</sub>	\/	-	0.74	0.82	- V	$I_F = 3.A, T_J = 25^{\circ}C$
	٧F	-	0.61	0.67		I <sub>F</sub> = 3.A, T <sub>J</sub> = 125°C
Leakage Current	I <sub>R</sub>	-	-	0.5	mΛ	$V_R = 150V, T_J = 25^{\circ}C$
		-	-	20	mA	$V_R = 150V, T_J = 125^{\circ}C$

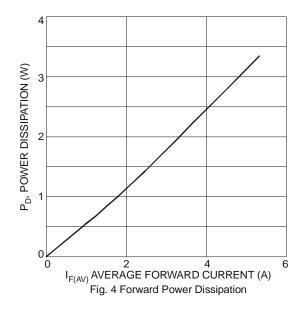
Notes: 4. FR-4 PCB, 2 oz. Copper, minimum recommended pad layout per http://www.diodes.com. T<sub>A</sub> = 25°C



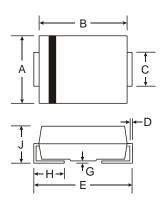






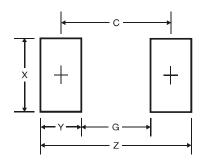


# **Package Outline Dimensions**



SMB			
Dim	Min	Max	
Α	3.30	3.94	
В	4.06	4.57	
C	1.96	2.21	
D	0.15	0.31	
Е	5.00	5.59	
G	0.05	0.20	
H	0.76	1.52	
7	2.00	2.50	
All Dimensions in mm			

# **Suggested Pad Layout**



Dimensions	Value (in mm)
Z	6.8
G	1.8
Х	2.3
Υ	2.5
С	4.3



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