

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

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VRM	100	V
Average Rectified Output Current	lo	2	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	IFSM	60	А

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Ambient (Note 5)	Reja	90	°C/W
Typical Thermal Resistance Junction to Case (Note 5)	Rejc	30	°C/W
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150	°C

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

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	VF	1	0.74 0.60	0.79	r \/	IF = 2A, T _J = +25°C IF = 2A, T _J = +125°C
Leakage Current (Note 6)	IR	<u>-</u>	_	10 2		V _R = 100V, T _J = +25°C V _R = 100V, T _J = +125°C
Typical Capacitance	Ст	-	93		pF	V _R = 4.0V, f = 1MHz

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.





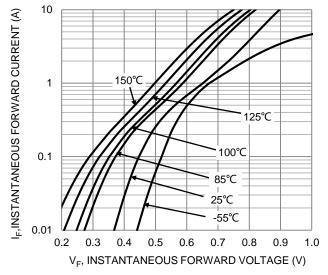


Figure 1. Typical Forward Characteristics

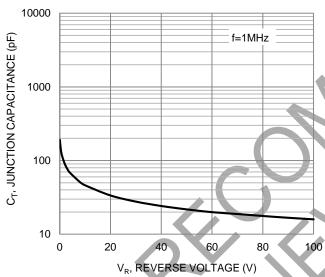


Figure 3. Typical Junction Capacitance

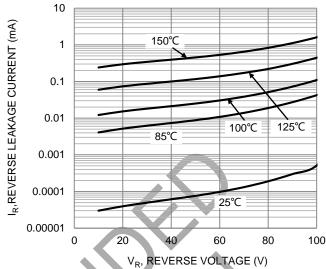


Figure 2. Typical Reverse Characteristics

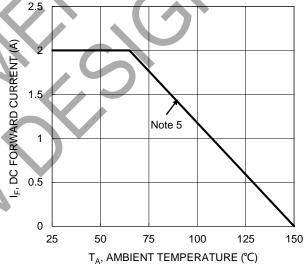


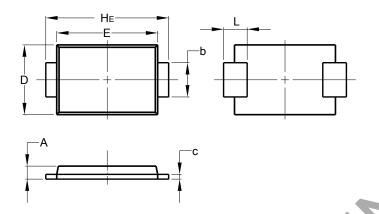
Figure. 4, DC Forward Current Derating



Package Outline Dimensions

Please see http://www.diodes.com/package-outlines.html for the latest version.

SMAF

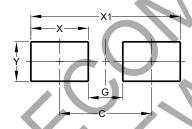


SMAF				
Dim	Min	Max		
Α	0.90	1.10		
b	1.25	1.65		
С	0.10	0.40		
D	2.25	2.95		
E	3.95	4.60		
HE	4.80	5.60		
L	0.50	1.50		
All Dimensions in mm				

Suggested Pad Layout

Please see http://www.diodes.com/package-outlines.html for the latest version.

SMAF



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



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