

Maximum Ratings (@ $T_A = +25^{\circ}C$, unless otherwise specified.)

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

Characteristic	Symbol	B350AF	B360AF	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _{RM}	50	60	>
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}	80)	А

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Ambient (Note 5)	$R_{\theta JA}$	90	°C/W
Typical Thermal Resistance Junction to Case (Note 5)	R _{0JC}	50	°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
Famurad Valtage Dues	.,	_	0.55	0.65	\/	I _F = 3A, T _J = +25°C
Forward Voltage Drop	VF	_	0.52	_	V	I _F = 3A, T _J = +125°C
B350AF		_	0.02	0.2		V _R = 50V, T _J = +25°C
Leakage Current (Note 6) B360AF	I_R	_	0.03	0.2	mA	$V_R = 60V, T_J = +25^{\circ}C$
		_	24	_		$V_R = 60V, T_J = +125$ °C
Typical Capacitance	C _T	_	110	_	pF	$V_R = 4.0V$, $f = 1MHz$

Notes:

- 5. Device mounted on FR-4 substrate, 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.



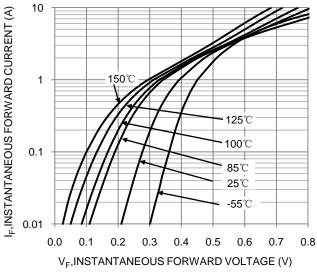


Figure 1. Typical Forward Characteristics

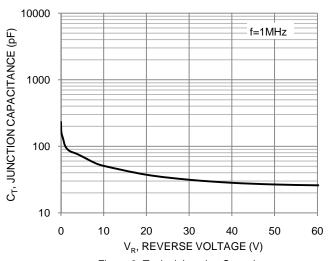


Figure 3. Typical Junction Capacitance

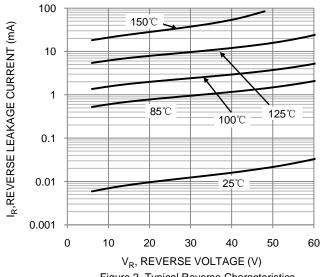


Figure 2. Typical Reverse Characteristics

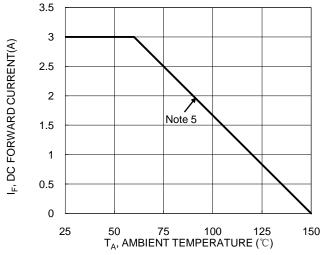


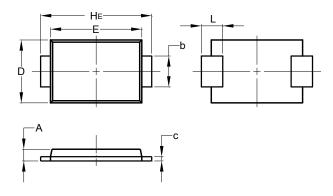
Figure 4. DC Forward Current Derating



Package Outline Dimensions

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

SMAF

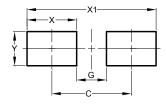


SMAF				
Dim	Min	Max		
Α	0.90	1.10		
b	1.25	1.65		
С	0.10	0.40		
D	2.25	2.95		
Е	3.95	4.60		
HE	4.80	5.60		
L	0.50	1.50		
All Dimensions in mm				

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
Υ	1.70



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