

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	B350AE	B360AE	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	50	60	V
Working Peak Reverse Voltage	V _{RWM}			
DC Blocking Voltage	V _{RM}			
Average Rectified Output Current	I _O	3		A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	80		A

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Ambient (Note 6)	R _{θJA}	60	°C/W
Typical Thermal Resistance Junction to Case (Note 6)	R _{θJC}	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	Typ	Max	Unit	Test Condition
Forward Voltage Drop	V _F	—	0.55 0.52	0.65 —	V	I _F = 3A, T _J = +25°C I _F = 3A, T _J = +125°C
Leakage Current (Note 7)	B350AE B360AE I _R	— — —	— — 25	0.1 0.2 —	mA	V _R = 50V, T _J = +25°C V _R = 60V, T _J = +25°C V _R = 60V, T _J = +125°C
Typical Capacitance	C _T	—	125	—	pF	V _R = 4.0V, f = 1MHz

Notes: 6. Device mounted on FR-4 substate, 1"×1", 2oz, single-sided, PC boards with 0.56"×0.73" copper pad.
7. Short duration pulse test used to minimize self-heating effect.

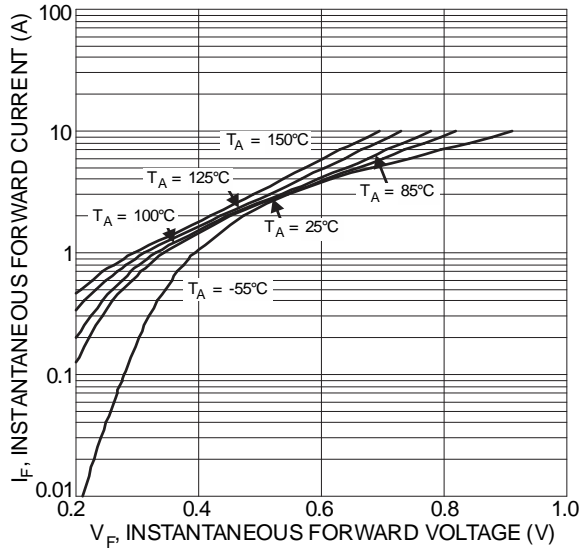


Figure 1 Typical Forward Characteristics

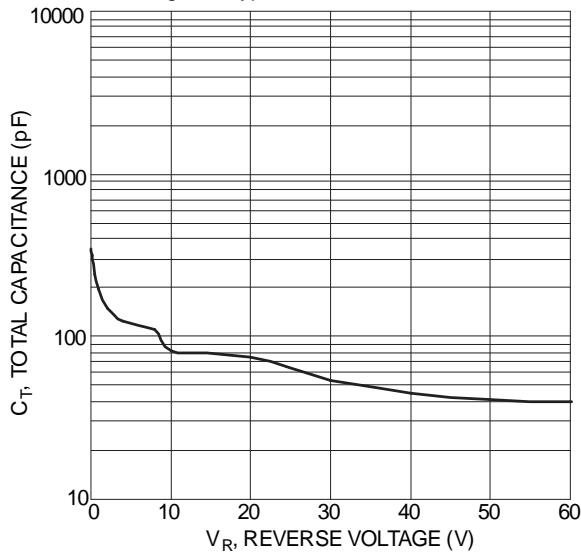


Figure 3 Total Junction Capacitance

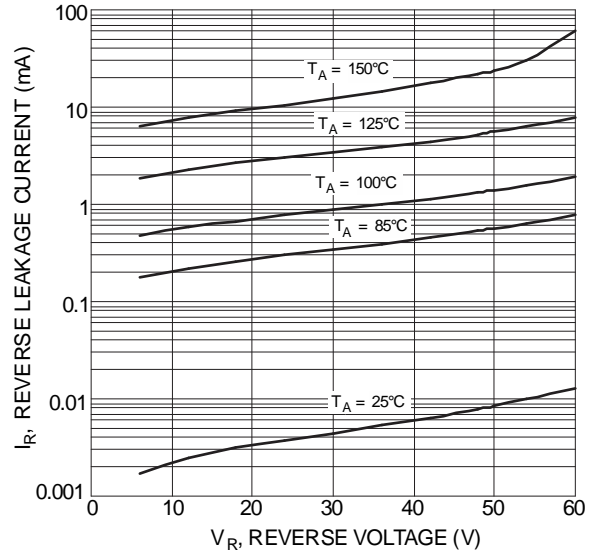


Figure 2 Typical Reverse Characteristics

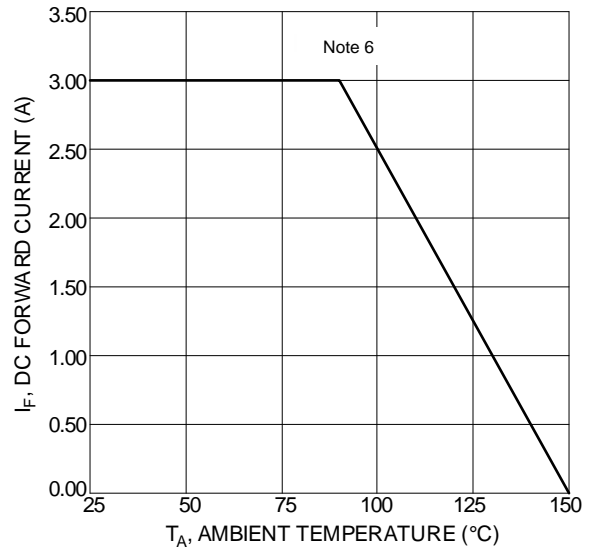
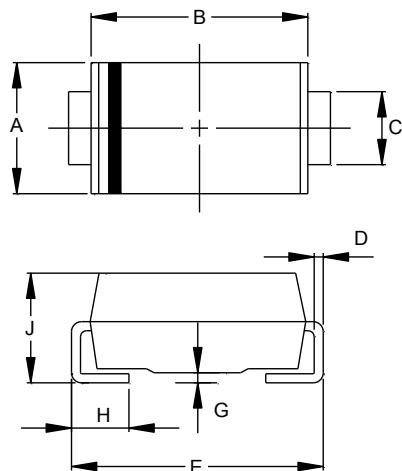


Figure 4 DC Forward Current Derating Curve

Package Outline Dimensions

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

SMA

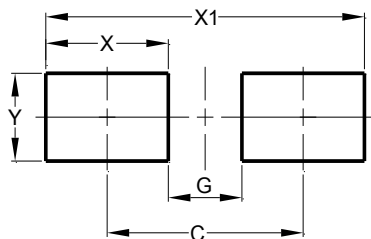


SMA		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.05	0.20
H	0.76	1.52
J	1.96	2.40
All Dimensions in mm		

Suggested Pad Layout

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

SMA



Dimensions	Value (in mm)
C	4.00
G	1.50
X	2.50
X1	6.50
Y	1.70

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