

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	B340BQ	B350BQ	B360BQ	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	40	50	60	V
Working Peak Reverse Voltage	V _{RWM}				
DC Blocking Voltage	V _R				
Average Rectified Output Current @ T _T = +100°C	I _O	3.0			A
Non-Repetitive Peak Forward Surge Current 8.3ms	I _{FSM}	100			A
Single Half Sine-wave Superimposed on Rated Load					

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Terminal (Note 5)	R _{θJT}	25	°C/W
Typical Thermal Resistance, Junction to Ambient (Note 5)	R _{θJA}	95	°C/W
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	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 B340BQ B350BQ/B360BQ	V _F	—	—	0.50 0.70	V	I _F = 3.0A, T _A = +25°C
Leakage Current (Note 6)	I _R	—	—	0.5 20	mA	@ Rated V _R , T _A = +25°C @ Rated V _R , T _A = +100°C
Total Capacitance	C _T	—	—	200	pF	V _R = 4V, f = 1MHz

Notes: 5. Thermal Resistance: Junction to terminal, unit mounted on glass epoxy substrate with 2x3mm copper pad.
 6. Short duration pulse test used to minimize self-heating effect.

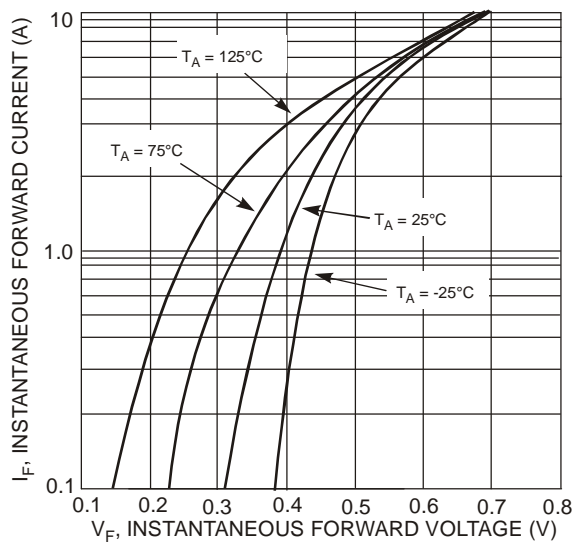


Figure 1 Typical Forward Characteristics – B340BQ

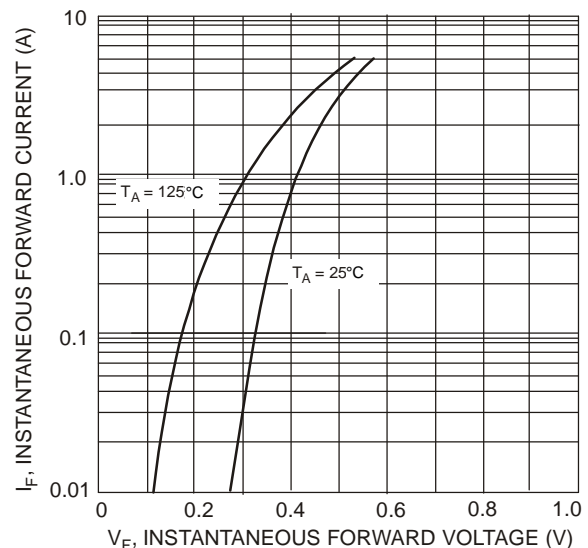


Figure 2 Typical Forward Characteristics –
 B350BQ/ B360BQ

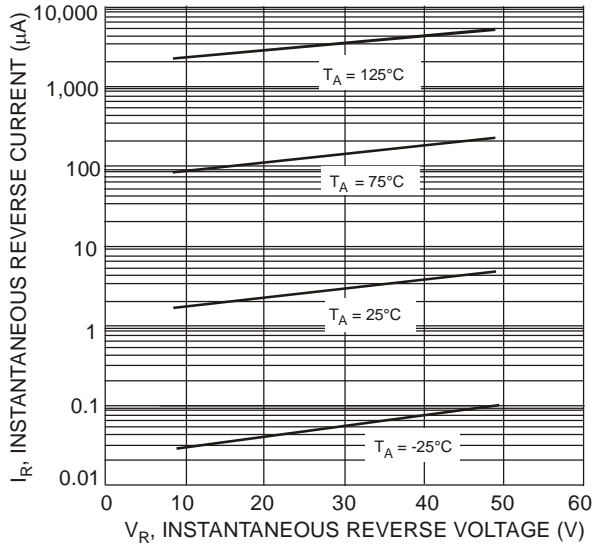


Figure 3 Typical Reverse Characteristics – B340BQ

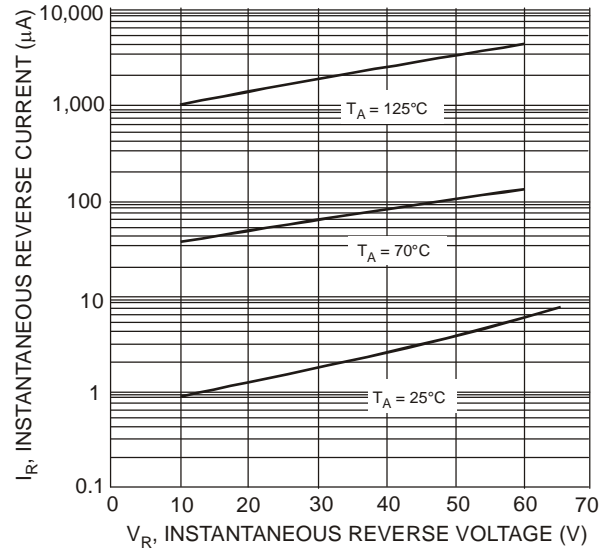


Figure 4 Typical Reverse Characteristics – B350BQ/B360BQ

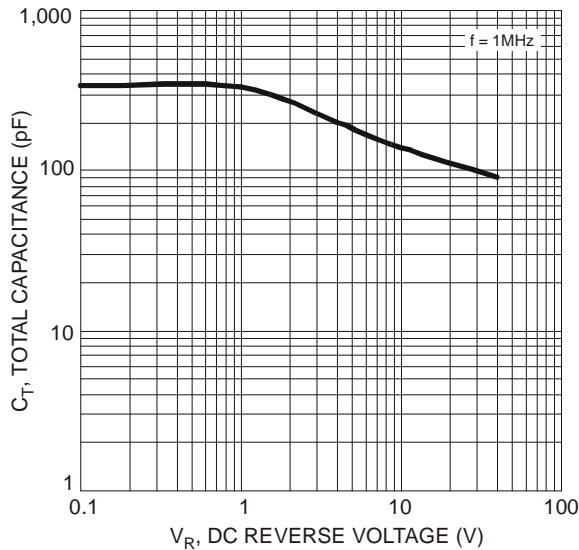


Figure 5 Total Capacitance vs. Reverse Voltage

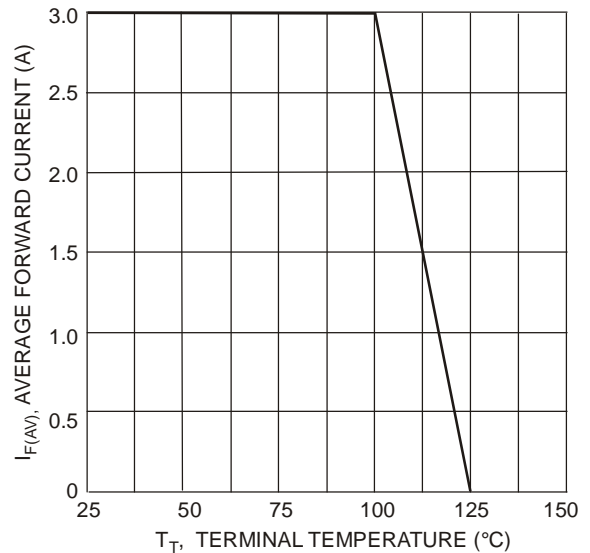


Figure 6 Forward Current Derating Curve

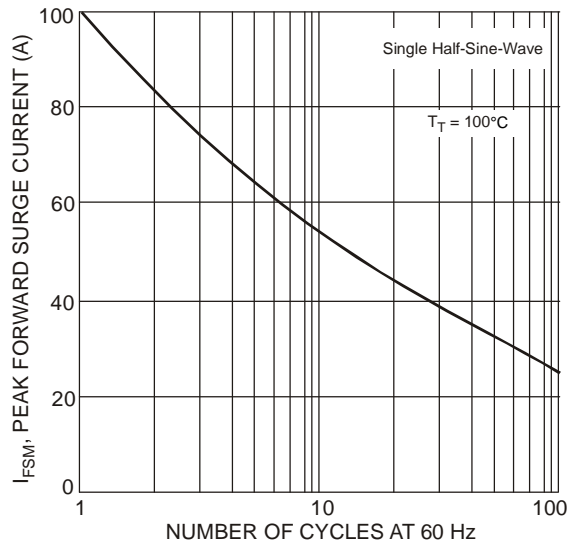
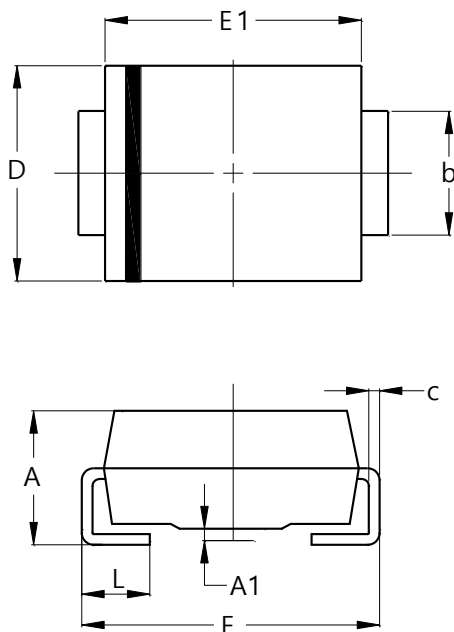


Figure 7 Max Non-Repetitive Peak Forward Surge Current

Package Outline Dimensions

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

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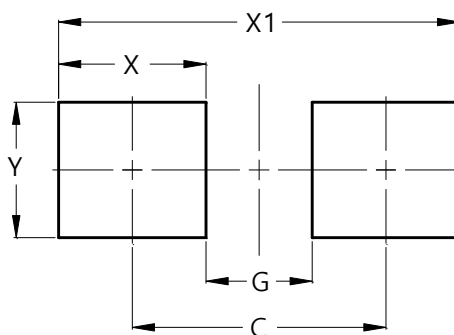


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Dim	Min	Max
A	2.00	2.50
A1	0.05	0.20
b	1.96	2.21
c	0.15	0.31
D	3.30	3.94
E	5.00	5.59
E1	4.06	4.57
L	0.76	1.52
All Dimensions in mm		

Suggested Pad Layout

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

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Dimensions	Value (in mm)
C	4.30
G	1.80
X	2.50
X1	6.80
Y	2.30

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