

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

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

Characteristic	Symbol	B320B	B330B	B340B/ B340BQ	B350B	B360B	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	20	30	40	50	60	V
Average Rectified Output Current @ $T_J = +100^\circ\text{C}$	I_O	3.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	100					A

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Terminal (Note 6)	$R_{\theta JT}$	25	$^\circ\text{C/W}$
Typical Thermal Resistance, Junction to Ambient (Note 6)	$R_{\theta JA}$	95	$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$

Electrical Characteristics (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage Drop B320B, B330B, B340B, B340BQ B350B, B360B	V_F	—	—	0.50 0.70	V	$I_F = 3.0\text{A}$, $T_A = +25^\circ\text{C}$
Leakage Current (Note 7)	I_R	—	—	0.5 20	mA	@ Rated V_R , $T_A = +25^\circ\text{C}$ @ Rated V_R , $T_A = +100^\circ\text{C}$
Total Capacitance	C_T	—	—	200	pF	$V_R = 4\text{V}$, $f = 1\text{MHz}$

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

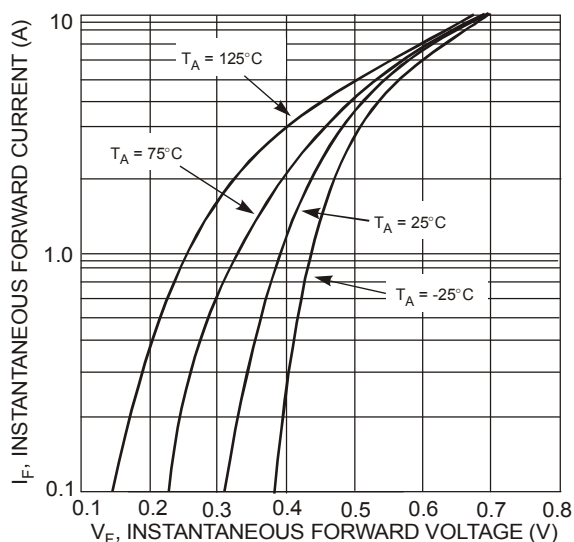


Figure 1 Typical Forward Characteristics - B320B thru B340B

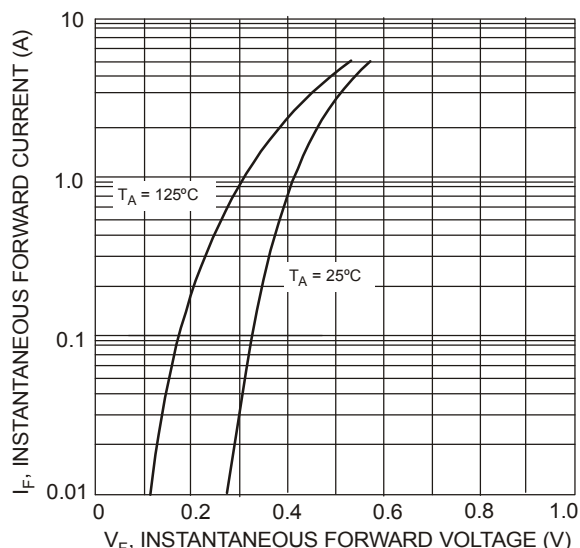


Figure 2 Typical Forward Characteristics - B350B thru B360B

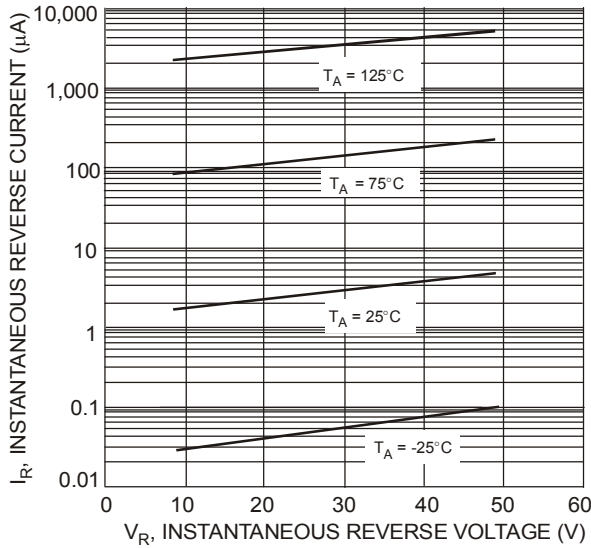


Figure 3 Typical Reverse Characteristics, B320B thru B340B

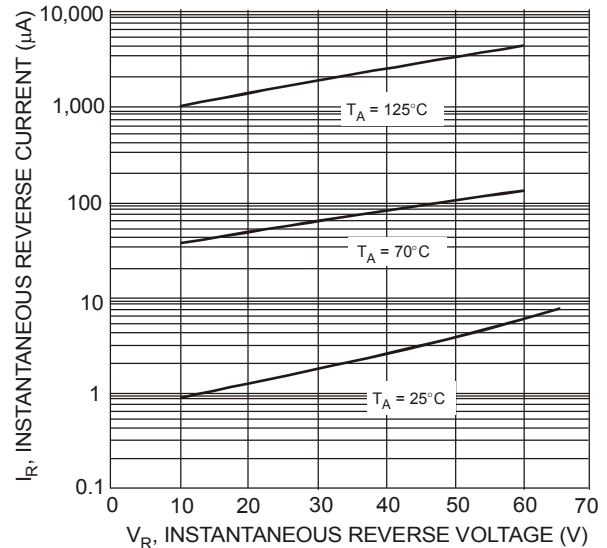


Figure 4 Typical Reverse Characteristics, B350B thru B360B

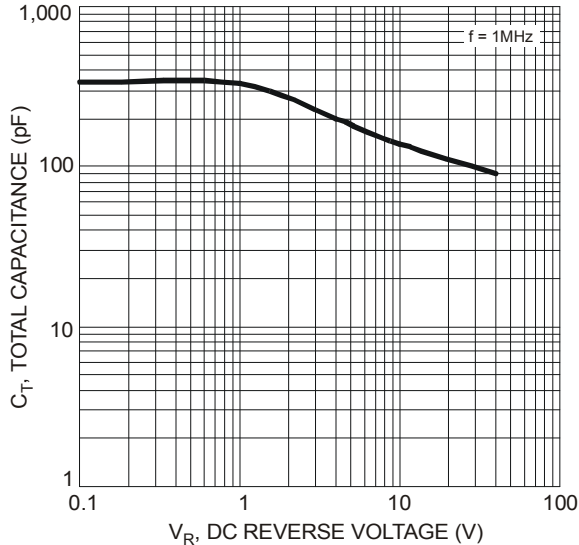


Figure 5 Total Capacitance vs. Reverse Voltage

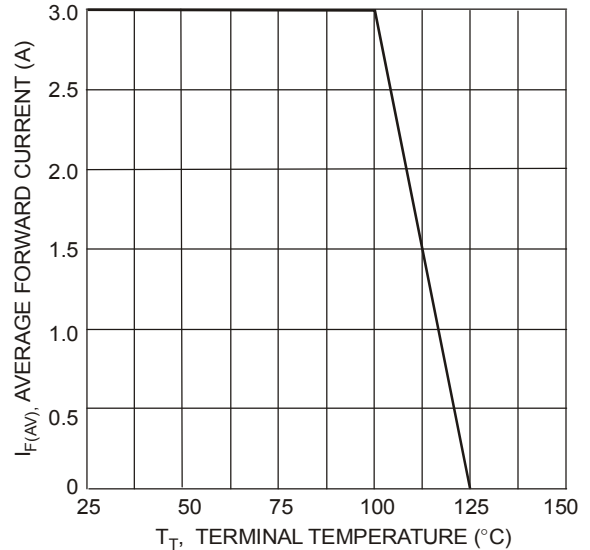


Figure 6 Forward Current Derating Curve

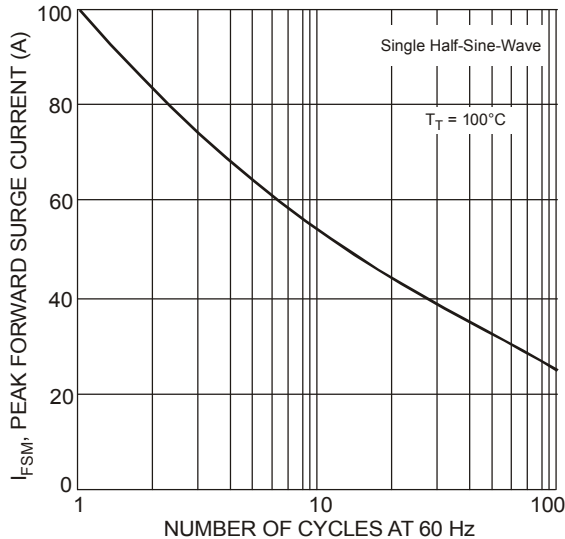
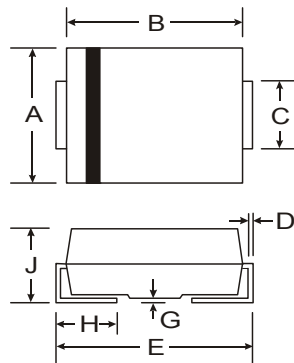


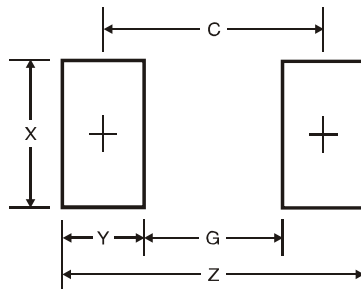
Figure 7 Max Non-Repetitive Peak Forward Surge Current

Package Outline Dimensions



SMB		
Dim	Min	Max
A	3.30	3.94
B	4.06	4.57
C	1.96	2.21
D	0.15	0.31
E	5.00	5.59
G	0.05	0.20
H	0.76	1.52
J	2.00	2.50
All Dimensions in mm		

Suggested Pad Layout



Dimensions	Value (in mm)
Z	6.8
G	1.8
X	2.3
Y	2.5
C	4.3

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