

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

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%.

Characteristic	Symbol	B320	B330	B340	B350	B360	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	Io	3.0			Α		
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100		Α			

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Terminal	$R_{ heta JT}$	20	°C/W
Typical Thermal Resistance, Junction to Ambient (Note 6)	R _{0JA}	90	°C/W
Operating Temperature Range	TJ	-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	Тур	Max	Unit	Test Condition
Forward Voltage Drop	B320, B330, B340 B350, B360	1 1/_			0.50 0.70	>	I _F = 3.0A, T _A = +25°C
Leakage Current (Note 7)		I _R			0.1 20	mΔ	@ Rated V _R , T _A = +25°C @ Rated V _R , T _A = +100°C
Total Capacitance		C _T	1	-	200	pF	$V_R = 4V, f = 1MHz$

Notes: 6. Thermal Resistance: Junction to terminal, unit mounted on glass epoxy substrate with 2 x 3mm copper pad.

7. Short duration pulse test used to minimize self-heating effect.

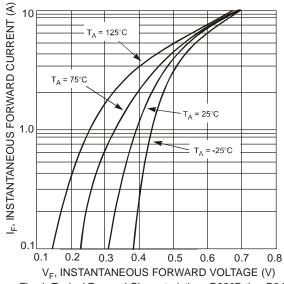


Fig. 1 Typical Forward Characteristics - B320B thru B340B

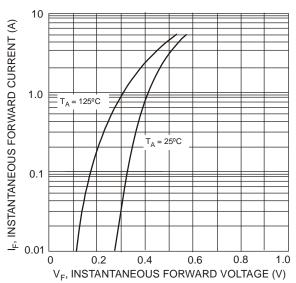
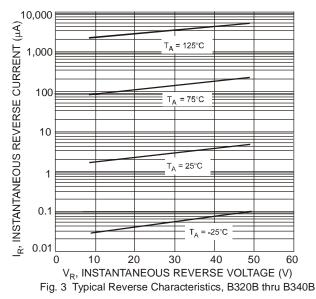
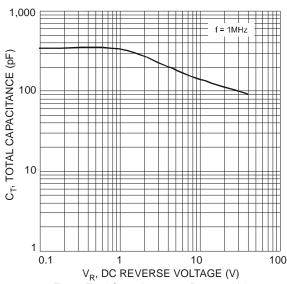
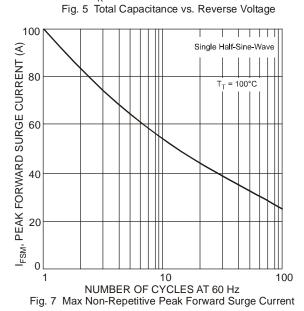


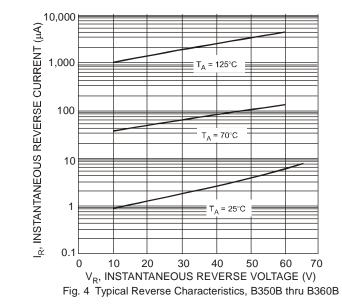
Fig. 2 Typical Forward Characteristics - B350B thru B360B

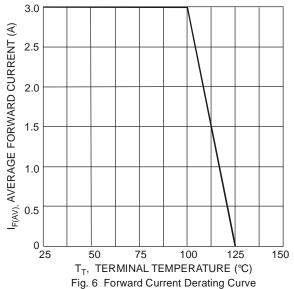








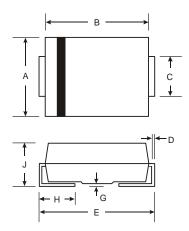






Package Outline Dimensions

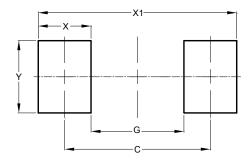
Please see AP02001 at http://www.diodes.com/_files/datasheets/ap02001.pdf for the latest version.



SMC					
Dim	Min	Max			
Α	5.59	6.22			
В	6.60	7.11			
С	2.75	3.18			
D	0.15	0.31			
Ε	7.75	8.13			
G	0.10	0.20			
Н	0.76	1.52			
J	2.00	2.50			
All Dimensions in mm					

Suggested Pad Layout

Please see AP02001 at http://www.diodes.com/_files/datasheets/ap02001.pdf for the latest version.



Dimensions	Value			
Dimensions	(in mm)			
С	6.90			
G	4.40			
Х	2.50			
X1	9.40			
Υ	3.30			



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