

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	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	20	30	40	50	60	V
Average Rectified Output Current	Ιο	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 7)	$R_{\theta JA}$	90	°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	Тур	Max	Unit	Test Condition
Forward Voltage Drop	B320, B330, B340 B350, B360	\/-			0.50 0.70	٧	I _F = 3.0A, T _A = +25°C
Leakage Current (Note 8)		I _R		_ _	0.5 20		@ Rated V _R , T _A = +25°C @ Rated V _R , T _A = +100°C
Total Capacitance		C _T	1	1	200	pF	V _R = 4V, f = 1MHz

Notes: 7. Thermal Resistance: Junction to terminal, unit mounted on glass epoxy substrate with 2x3mm copper pad 8. Short duration pulse test used to minimize self-heating effect.

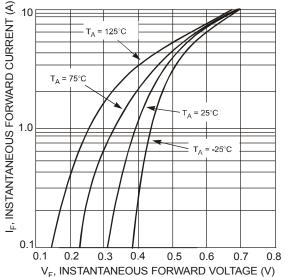


Fig. 1 Typical Forward Characteristics - B320B thru B340B

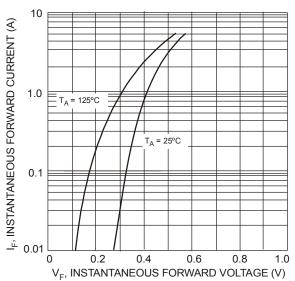
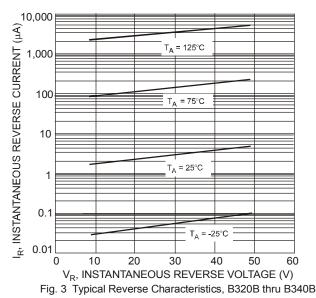
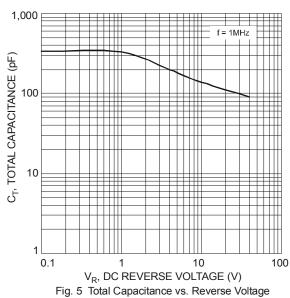
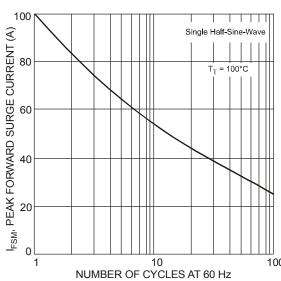


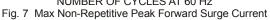
Fig. 2 Typical Forward Characteristics - B350B thru B360B

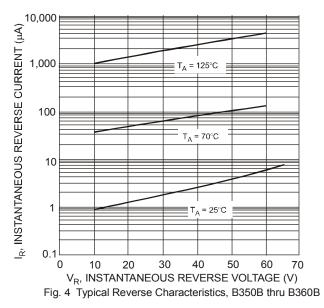


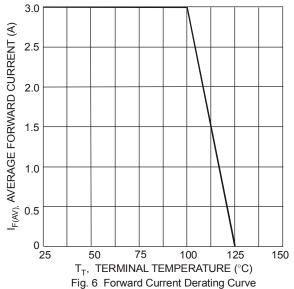








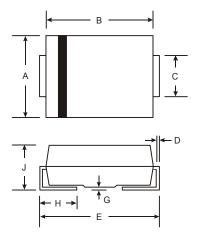






Package Outline Dimensions

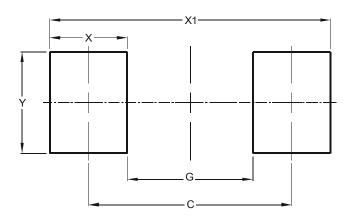
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for the latest version.



SMC					
Dim	Min	Max			
Α	5.59	6.22			
В	6.60	7.11			
C	2.75	3.18			
D	0.15	0.31			
Е	7.75	8.13			
G	0.10	0.20			
Н	0.76	1.52			
7	2.00	2.50			
All Dimensions in mm					

Suggested Pad Layout

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



Dimensions	Value (in mm)
С	6.80
G	4.40
X	2.50
X1	9.40
Υ	3.30

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