

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	B320Q	B330Q	B340Q	B350Q	B360Q	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	30	40	50	60	>
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			А		

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Terminal	R _{OJT}	20	°C/W
Typical Thermal Resistance, Junction to Ambient (Note 7)	R _{OJA}	90	°C/W
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

Electrical Characteristics (@TA = +25°C, unless otherwise specified.)

Characteristic		Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	B320Q-B340Q	\/_	_	_	0.50	V	I _F = 3.0A, T _A = +25°C
	B350Q-B360Q				0.70		
Leakage Current (Note 8)				_	0.5	mΛ	@ Rated V _R , T _A = +25°C
		IR	_	_	20	mA	@ Rated V _R , T _A = +100°C
Total Capacitance		Ст	_	_	200	pF	$V_R = 4V$, $f = 1MHz$

Notes:

- 7. Thermal Resistance: Junction to terminal, unit mounted on glass epoxy substrate with 2 x 3mm copper pad.
- 8. Short duration pulse test used to minimize self-heating effect.

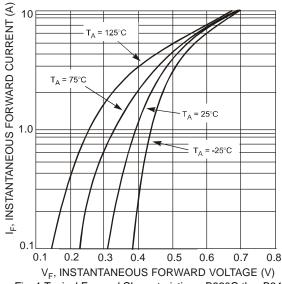


Fig. 1 Typical Forward Characteristics – B320Q thru B340Q

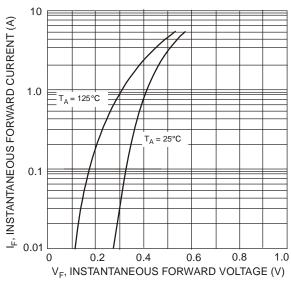
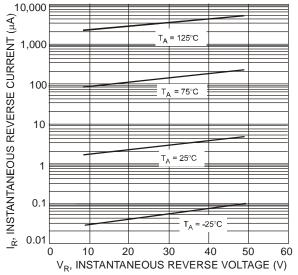
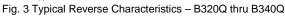
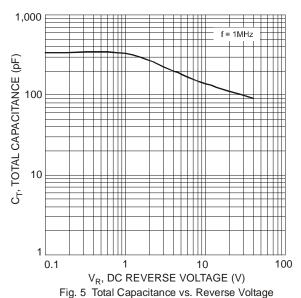


Fig. 2 Typical Forward Characteristics - B350Q thru B360Q



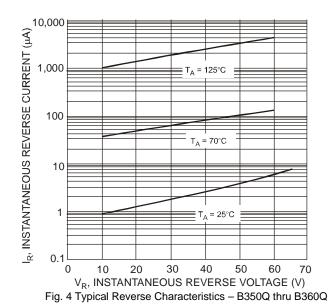






100 Single Half-Sine-Wave Single Half-Sine-Wave Name August 10 NUMBER OF CYCLES AT 60 Hz

Fig. 7 Max Non-Repetitive Peak Forward Surge Current

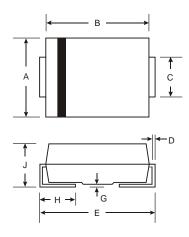




Package Outline Dimensions

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

SMC

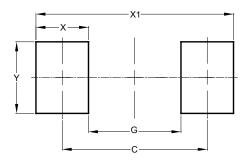


SMC					
Dim	Min	Max			
Α	5.59	6.22			
В	6.60	7.11			
С	2.75	3.18			
D	0.15	0.31			
Е	7.75	8.13			
G	0.10	0.20			
Н	0.76	1.52			
J	2.00	2.50			
All Dimensions in mm					

Suggested Pad Layout

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

SMC



Dimensions	Value (in mm)				
С	6.90				
G	4.40				
Х	2.50				
X1	9.40				
Υ	3 30				



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