



## Glass Passivated Single-Phase Bridge Rectifier



Case Style WOG

**FEATURES**

- Ideal for printed circuit boards
- High case dielectric strength
- High surge current capability
- Typical  $I_R$  less than 0.1  $\mu\text{A}$
- Solder dip 275 °C max. 10 s, per JESD 22-B106
- Material categorization: For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)

**RoHS**  
COMPLIANT

PRIMARY CHARACTERISTICS	
Package	WOG
$I_{F(AV)}$	0.9 A
$V_{RRM}$	65 V, 125 V, 200 V, 400 V, 600 V
$I_{FSM}$	45 A
$I_R$	10 $\mu\text{A}$
$V_F$ at $I_F = 0.9$ A	1.0 V
$T_J$ max.	125 °C
Diode variations	Quad

**TYPICAL APPLICATIONS**

General purpose use in AC/DC bridge full wave rectification for power supply, adapter, charger, lighting ballaster on consumers, and home appliances applications.

**MECHANICAL DATA****Case:** WOG

Molding compound meets UL 94 V-0 flammability rating Base P/N-E4 - RoHS-compliant, commercial grade

**Terminals:** Silver plated leads, solderable per J-STD-002 and JESD22-B102**Polarity:** As marked on body

MAXIMUM RATINGS ( $T_A = 25$ °C unless otherwise noted)							
PARAMETER	SYMBOL	B40 C800G	B80 C800G	B125 C800G	B250 C800G	B380 C800G	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	65	125	200	400	600	V
Maximum RMS input voltage R- and C-load	$V_{RMS}$	40	80	125	250	380	V
Maximum average forward output current for free air operation at $T_A = 45$ °C	R- and L-load	0.9					A
	C-load	0.8					
Maximum non-repetitive peak voltage	$V_{RSM}$	100	200	350	600	1000	V
Maximum DC blocking voltage	$V_{DC}$	65	125	200	400	600	V
Maximum peak working voltage	$V_{RWM}$	90	180	300	600	900	V
Maximum repetitive peak forward surge current	$I_{FRM}$	10					A
Peak forward surge current single sine-wave on rated load	$I_{FSM}$	45					A
Rating for fusing at $T_J = 125$ °C ( $t < 100$ ms)	$I^2t$	10					$\text{A}^2\text{s}$
Minimum series resistor C-load at $V_{RMS} = \pm 10$ %	$R_T$	1.0	2.0	4.0	8.0	12	$\Omega$
Maximum load capacitance	$C_L$	5000	2500	1000	500	200	$\mu\text{F}$
Operating junction temperature range	$T_J$	- 40 to + 125					°C
Storage temperature range	$T_{STG}$	- 40 to + 150					°C

ELECTRICAL CHARACTERISTICS ( $T_A = 25$ °C unless otherwise noted)								
PARAMETER	TEST CONDITIONS	SYMBOL	B40 C800G	B80 C800G	B125 C800G	B250 C800G	B380 C800G	UNIT
Maximum instantaneous forward voltage drop per diode	0.9 A	$V_F$	1.0				V	
Maximum reverse current at rated repetitive peak voltage per diode		$I_R$	10				$\mu\text{A}$	



THERMAL CHARACTERISTICS ( $T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)							
PARAMETER	SYMBOL	B40 C800G	B80 C800G	B125 C800G	B250 C800G	B380 C800G	UNIT
Typical thermal resistance <sup>(1)</sup>	$R_{\theta JA}$	36					$^\circ\text{C/W}$
	$R_{\theta JL}$	11					

**Note**

(1) Thermal resistance from junction to ambient and from junction to lead mounted on PCB at 0.375" (9.5 mm) lead lengths with 0.22" x 0.22" (5.5 mm x 5.5 mm) copper pads

ORDERING INFORMATION (Example)				
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
B380C800G-E4/51	1.12	51	100	Plastic bag

**RATINGS AND CHARACTERISTICS CURVES ( $T_A = 25\text{ }^\circ\text{C}$  unless otherwise noted)**

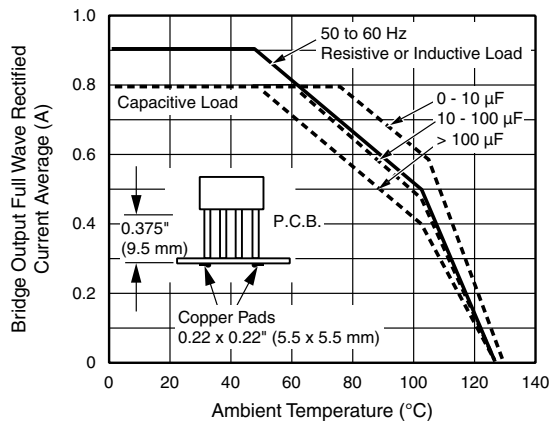


Fig. 1 - Derating Curves Output Rectified Current for B40C800G...B125C800G

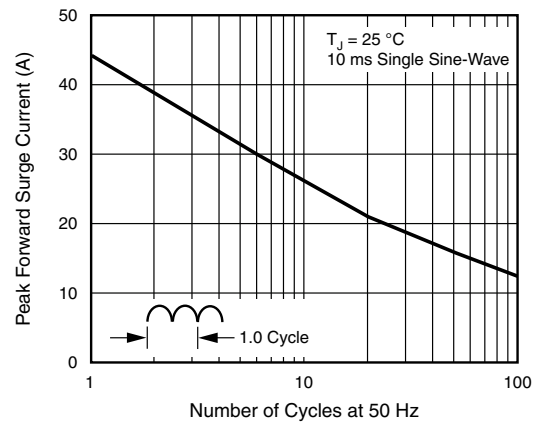


Fig. 3 - Maximum Non-Repetitive Peak Forward Surge Current Per Diode

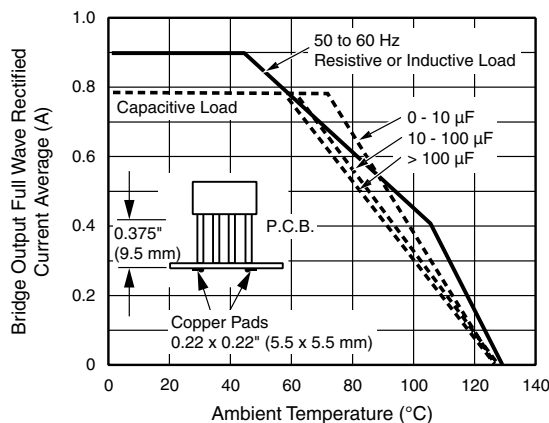


Fig. 2 - Derating Curves Output Rectified Current for B250C800G...B380C800G

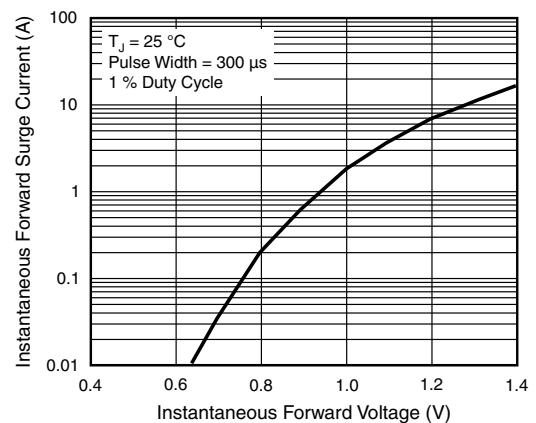


Fig. 4 - Typical Forward Characteristics Per Diode

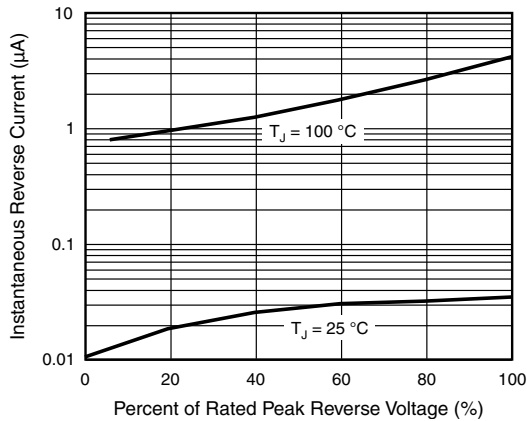
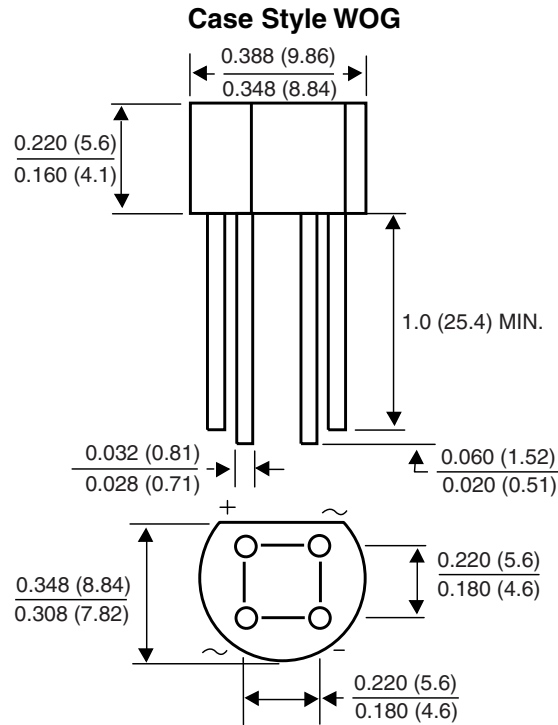


Fig. 5 - Typical Reverse Characteristics Per Diode



Fig. 6 - Typical Junction Capacitance Per Diode

**PACKAGE OUTLINE DIMENSIONS** in inches (millimeters)





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