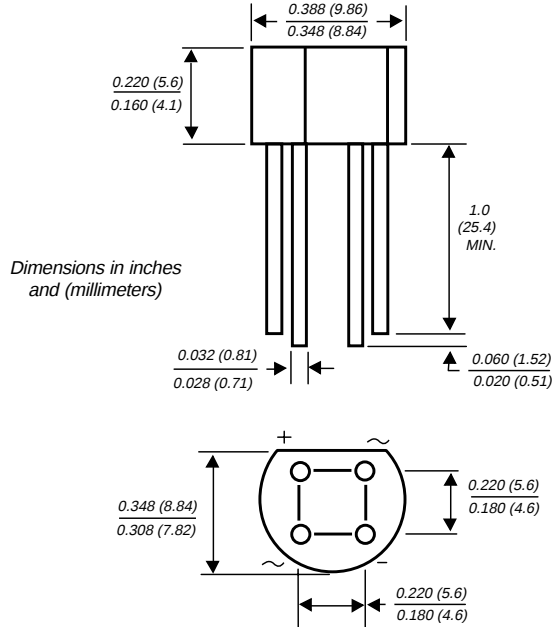


Case Style WOG



Glass Passivated Single-Phase Bridge Rectifier

Reverse Voltage 65 and 600 V
Forward Current 1.0 A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High case dielectric strength
- Typical I_R less than 0.1 μ A
- High overload surge current
- Ideal for printed circuit boards
- High temperature soldering guaranteed: 260°C/10 seconds, 0.375 (9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

Case: Molded plastic body over passivated junctions

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Mounting Position: Any

Weight: 0.04 ounce, 1.1 grams

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	SYMBOLS	B40 C1000G	B80 C1000G	B125 C1000G	B250 C1000G	B380 C1000G	UNITS
Maximum repetitive peak reverse voltage	VRRM	65	125	200	400	600	V
Maximum RMS input voltage R + C-load	VRMS	40	80	125	250	380	V
Maximum DC blocking voltage	VDC	65	125	200	400	600	V
Maximum peak working voltage	VRWM	90	180	300	600	800	V
Maximum non-repetitive peak voltage	VRSM	100	200	350	600	1000	V
Maximum repetitive peak forward surge current	IFRM	10					A
Maximum average forward output current for free air operation at TA=45°C R + L-load	IF(AV)	1.2					A
C-Load		1.0					
Peak forward surge current single sine wave on rated load (JEDEC Method)	IFSM	45					A
Rating for fusing at TJ=125°C (t<8.3ms)	I²t	10					A²sec
Minimum series resistor C-load at VRMS = ±10%	Rt	1.0	2.0	4.0	8.0	12	Ω
Maximum load capacitance +50% -10%	CL	5000	2500	1000	500	200	μF
Typical thermal resistance per leg (NOTE 1)	RθJA RθJL	36 11					°C/W
Operating junction temperature range	TJ	-40 to +125					°C
Storage temperature range	TSTG	-40 to +150					°C

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

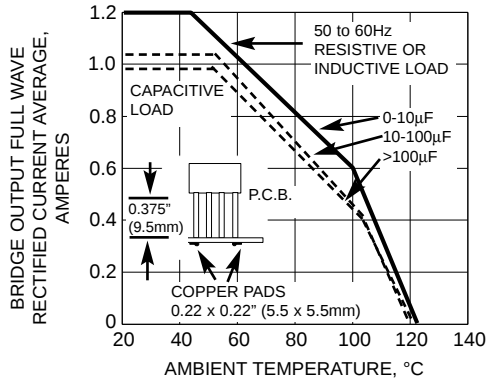
	SYMBOLS	B40 C1000G	B80 C1000G	B125 C1000G	B250 C1000G	B380 C1000G	UNITS
Maximum instantaneous forward voltage drop per leg at 1.0A	VF	1.0					V
Maximum reverse current at rated repetitive peak voltage per leg TA=25°C	IR	10					μA

Notes:

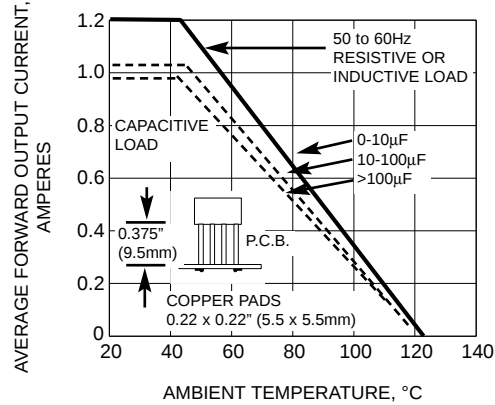
- (1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. at 0.375" (9.5mm) lead lengths with 0.2 x 0.2" (5.5 x 5.5mm) copper pads

Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

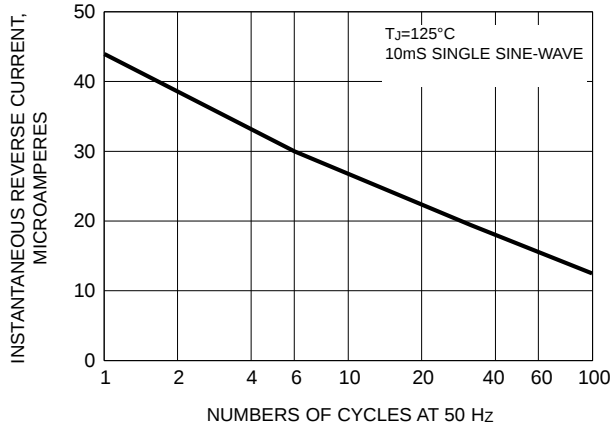
**FIG. 1 - DERATING CURVE
OUTPUT RECTIFIED CURRENT
B40C1000G...B125C1000G**



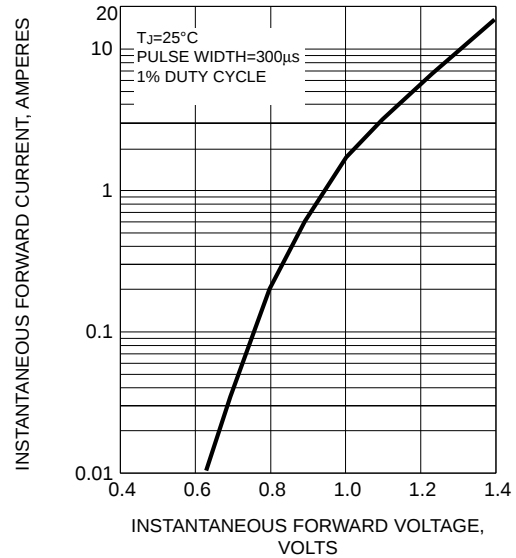
**FIG. 2 - DERATING CURVES FOR
OUTPUT RECTIFIED CURRENT
B250C1000G...B380C1000G**



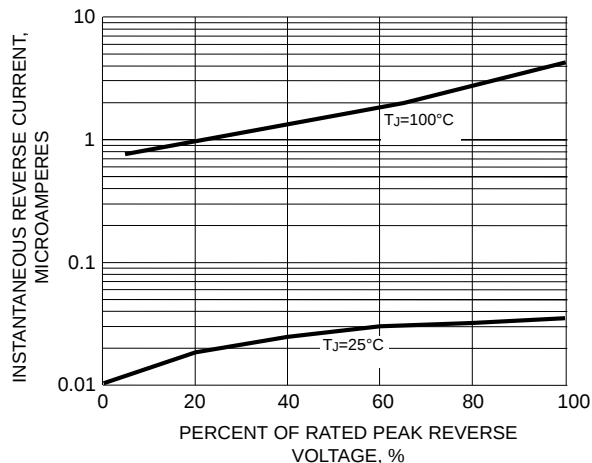
**FIG. 3 - MAXIMUM NON-REPETITIVE PEAK
FORWARD CURRENT PER LEG**



**FIG. 4 - TYPICAL FORWARD CHARACTERISTICS
PER LEG**



**FIG. 5 - TYPICAL REVERSE
CHARACTERISTICS PER LEG**



**FIG. 6 - TYPICAL JUNCTION CAPACITANCE
PER LEG**

