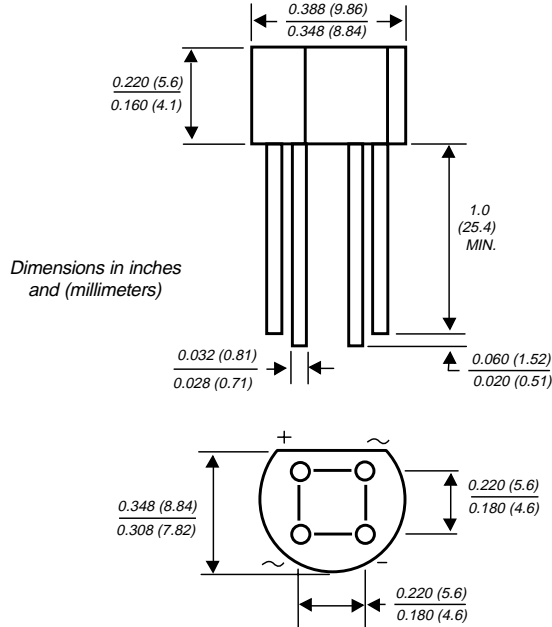


Case Style WOG



Glass Passivated Single-Phase Bridge Rectifier

Reverse Voltage 65 and 600 V
Forward Current 1.5 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 μA
- High surge current capability
- 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 C1500G	B80 C1500G	B125 C1500G	B250 C1500G	B380 C1500G	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)	1.6					A
C-Load		1.5					
Peak forward surge current single sine wave on rated load at TJ=125°C	IFSM	50					A
Rating for fusing at TJ=125°C (t<100ms)	I ² t	12.5					A ² sec
Minimum series resistor C-load at VRMS = ±10%	R _t	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.

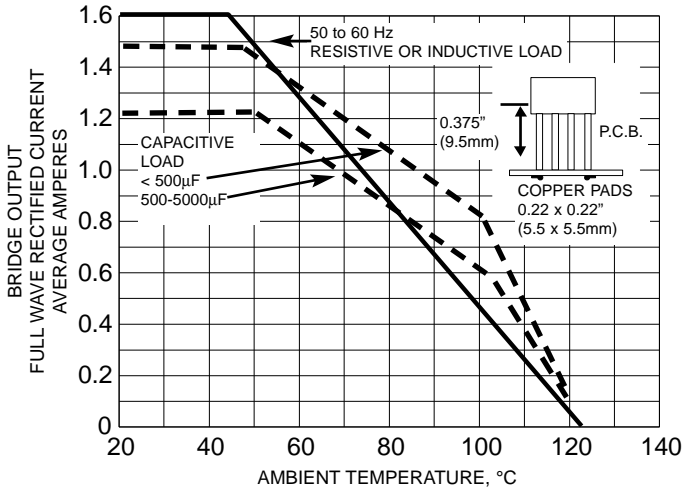
	SYMBOLS	B40 C1500G	B80 C1500G	B125 C1500G	B250 C1500G	B380 C1500G	UNITS
Maximum instantaneous forward voltage drop per leg at 1.5A	VF	1.0					V
Maximum reverse current at rated repetitive peak voltage per leg TA=25°C	IR	10					μA

Notes:

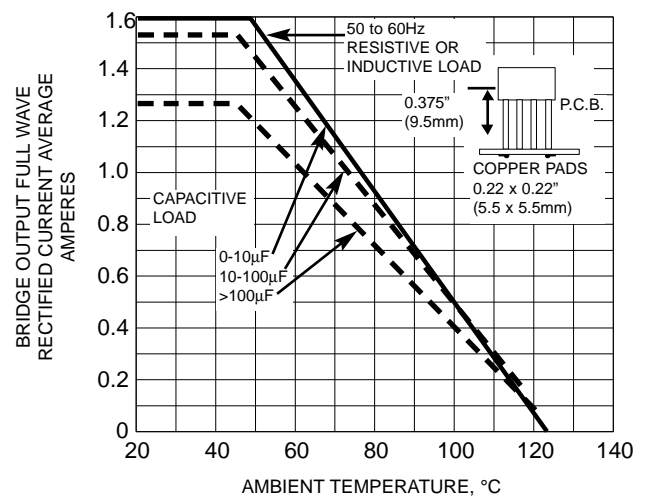
(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B.
at 0.375" (9.5mm) lead lengths with 0.2 x 0.2"

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

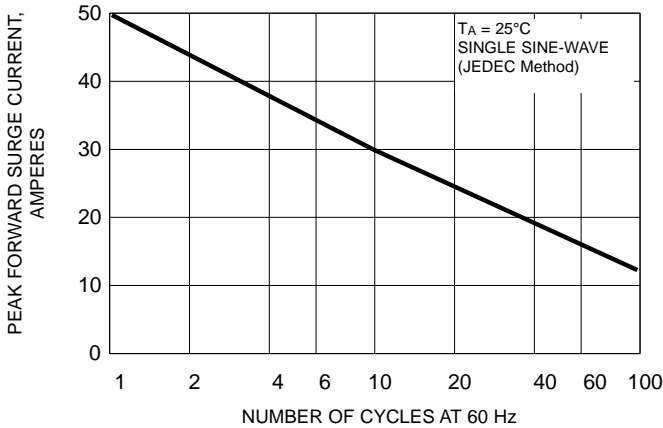
**FIG.1 - DERATING CURVES
OUTPUT RECTIFIED CURRENT
FOR B40C1500G...B125C1500G**



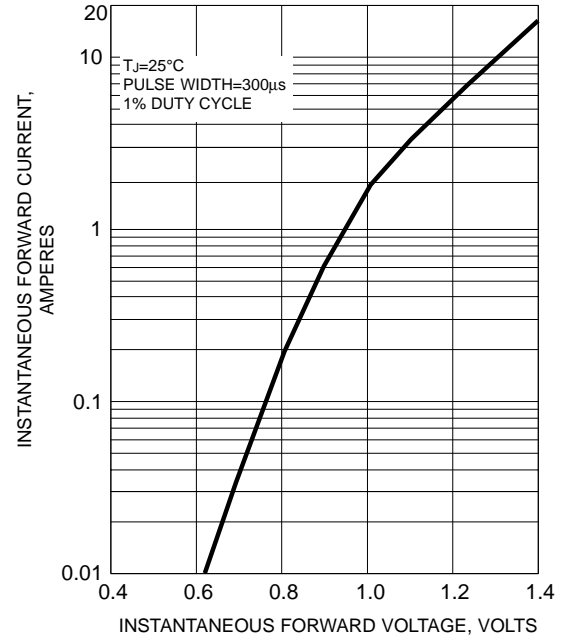
**FIG.2 - DERATING CURVES
OUTPUT RECTIFIED CURRENT
FOR B250C1500G...B380C1500G**



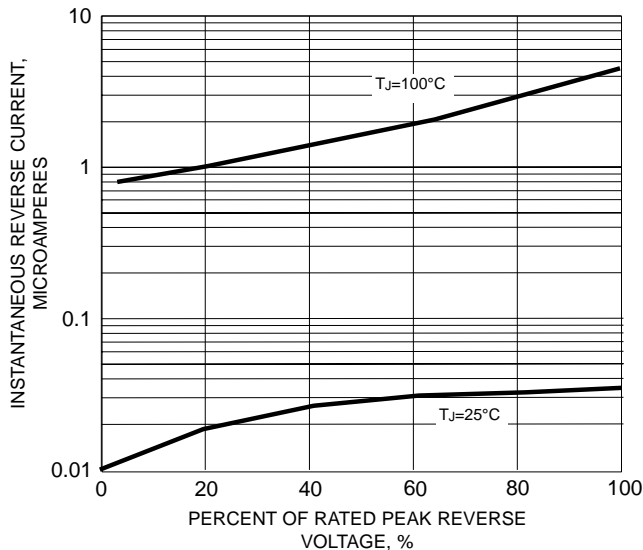
**FIG.3 - MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT PER LEG**



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



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



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

