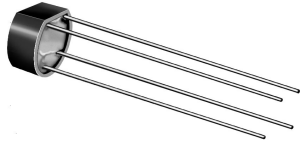
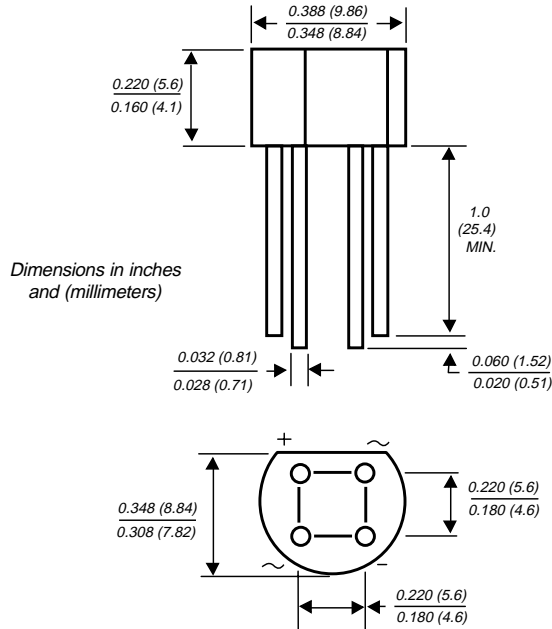


Glass Passivated Single-Phase Bridge Rectifier

Reverse Voltage 65 and 600 V
Forward Current 1.5 A



Case Style WOG



Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High case dielectric strength
- Typical I_R less than $0.1\mu A$
- 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 $T_A=45^\circ C$ R + L-load C-Load	IF(AV)	1.6 1.5						A
Peak forward surge current single sine wave on rated load at $T_J=125^\circ C$	IFSM	50						A
Rating for fusing at $T_J=125^\circ C$ ($t < 100ms$)	I ² t	12.5						A ² sec
Minimum series resistor C-load at $V_{RMS} = \pm 10\%$	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)	R _{θJA} R _{θJL}	36 11						°C/W
Operating junction temperature range	T _J	-40 to +125						°C
Storage temperature range	T _{STG}	-40 to +150						°C

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

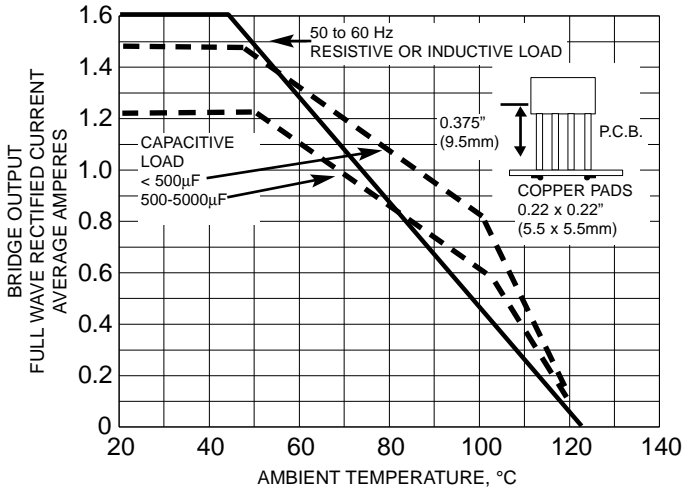
	SYMBOLS	B40 C1500G	B80 C1500G	B125 C1500G	B250 C1500G	B380 C1500G	UNITS	
Maximum instantaneous forward voltage drop per leg at 1.5A	V _F	1.0						V
Maximum reverse current at rated repetitive peak voltage per leg $T_A=25^\circ C$	I _R	10						μA

Notes:

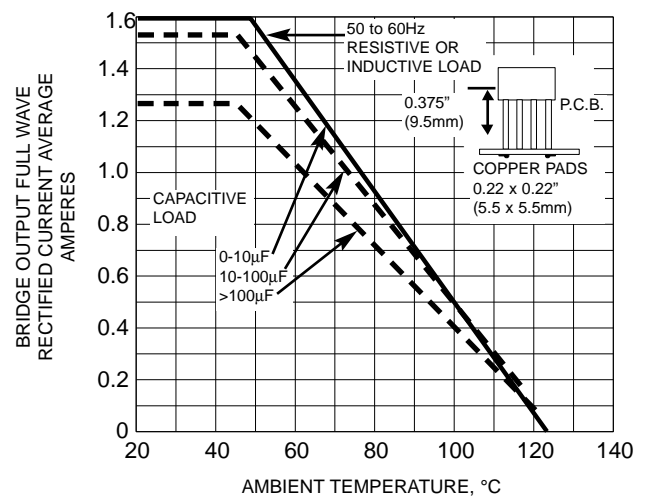
(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. at 0.375" (9.5mm) lead lengths with 0.2 x 0.2"

Ratings and Characteristic Curves (T_A = 25°C unless otherwise noted)

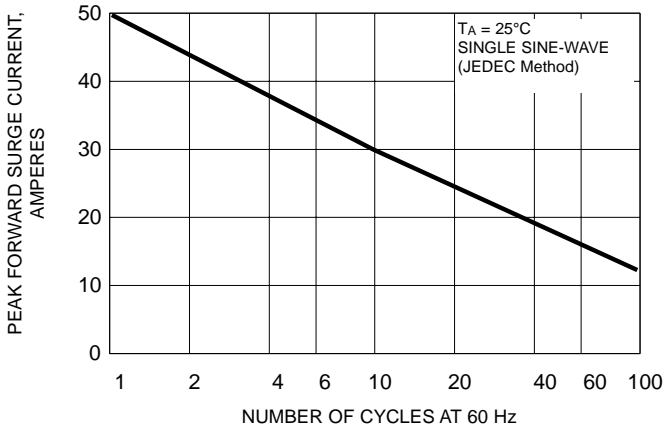
**FIG. 1 - DERATING CURVES
OUTPUT RECTIFIED CURRENT
FOR B40C1500G...B125C1500G**



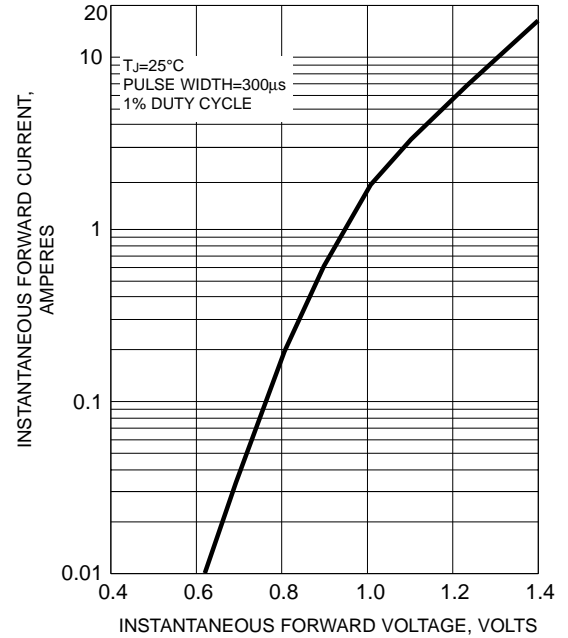
**FIG. 2 - DERATING CURVES
OUTPUT RECTIFIED CURRENT
FOR B250C1500G...B380C1500G**



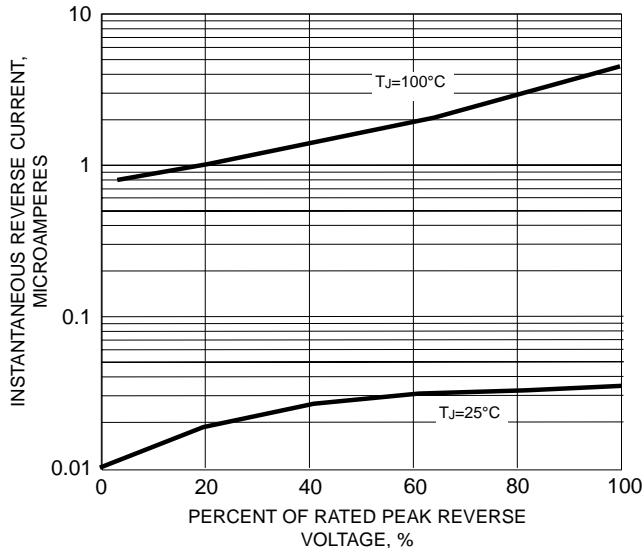
**FIG. 3 - MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT PER LEG**



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



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



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

