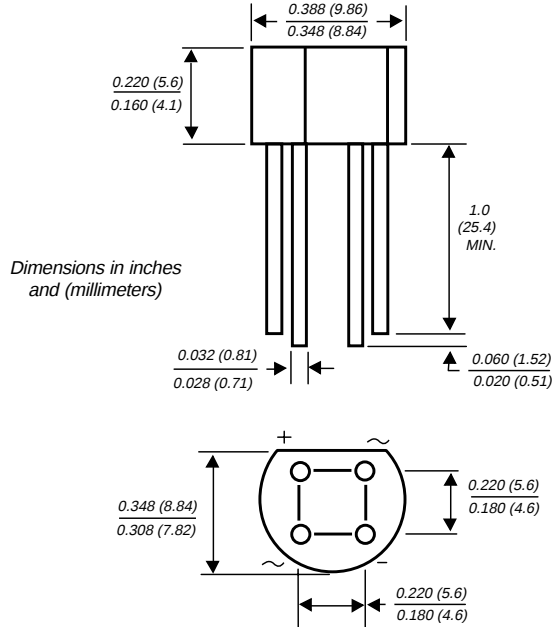


Case Style WOG



Glass Passivated Single-Phase Bridge Rectifier

Rectifier Reverse Voltage 65 and 600 V

Rectifier Forward Current 0.9 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, 5lbs. (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 C800G	B80 C800G	B125 C800G	B250 C800G	B380 C800G	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	65	125	200	400	600	V
Maximum RMS input voltage R + 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 + L-load C-Load	I _{F(AV)}	0.9 0.8					A
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 at T _J =125°C	I _{FSM}	45					A
Rating for fusing at T _J =125°C (t<100ms)	I ² t	10					A ² sec
Minimum series resistor C-load at V _{RMS} = ±10%	R _t	1.0	2.0	4.0	8.0	12	Ω
Maximum load capacitance +50% -10%	C _L	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

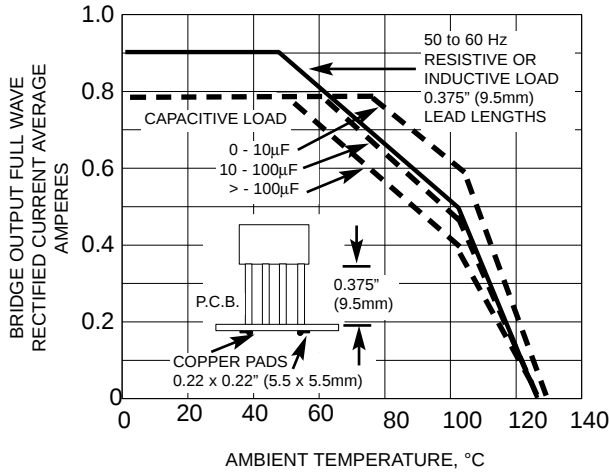
Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

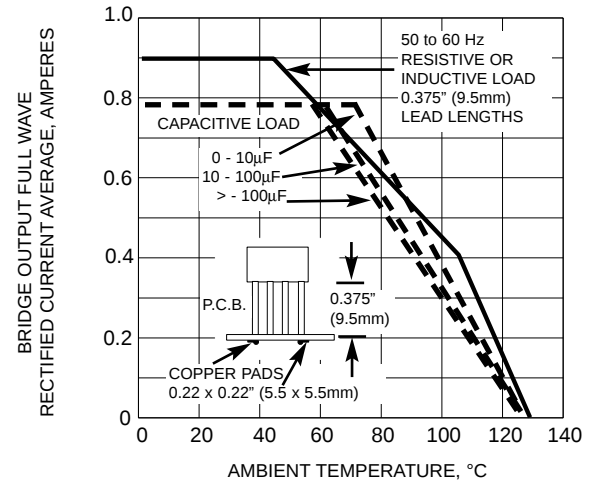
	SYMBOLS	B40 C800G	B80 C800G	B125 C800G	B250 C800G	B380 C800G	UNITS
Maximum instantaneous forward voltage drop per leg at 0.9A	V _F	1.0					V
Maximum reverse current at rated repetitive peak voltage per leg	I _R	10					μA

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" (5.5 x 5.5mm) copper pads.

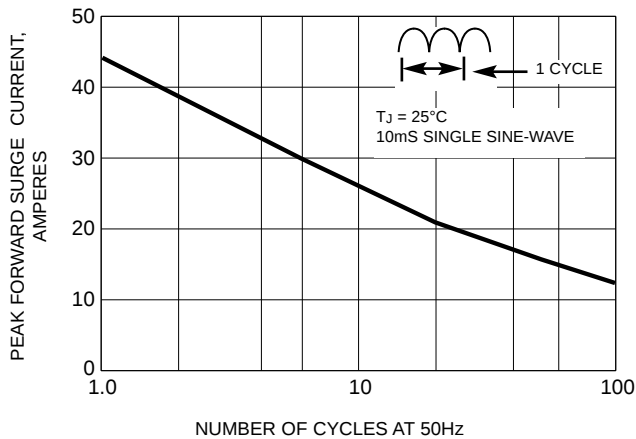
**FIG.1 - DERATING CURVES OUTPUT RECTIFIED
CURRENT FOR B40C800G...B125C800G**



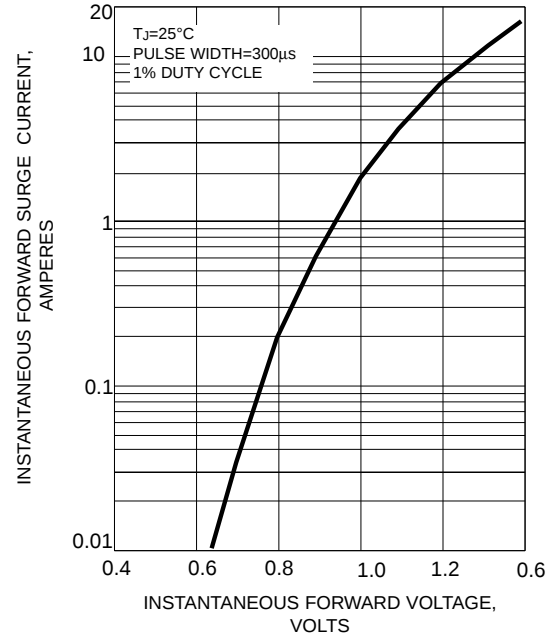
**FIG. 2 - DERATING CURVES FOR OUTPUT
RECTIFIED CURRENT B250C800G...B380C800G**



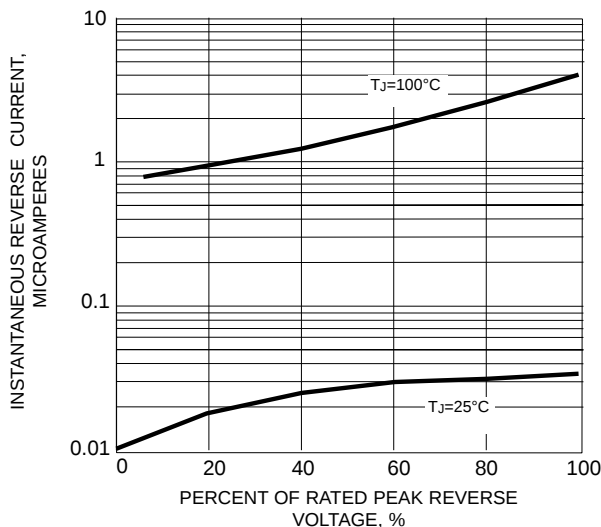
**FIG. 3 - MAXIMUM NON-REPETITIVE PEAK FORWARD
CURRENT PER LEG**



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



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



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

