

# Bridge Rectifier

## **B125C800G**

125V / 0,8A

# DATASHEET

from

[www.web-bcs.com](http://www.web-bcs.com)

OEM – General Semiconductor

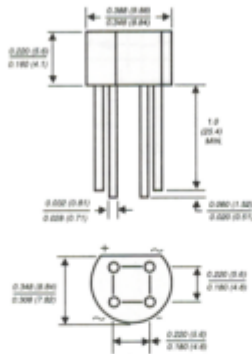
Source: General Semiconductor Databook 1998

# B40C800G THRU B380C800G

## GLASS PASSIVATED SINGLE - PHASE BRIDGE RECTIFIER

Reverse Voltage - 65 to 600 Volts Forward Current - 0.9 Ampere

### Case Style WQG



Dimensions in inches and (millimeters)

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junctions
- High case dielectric strength
- Typical  $I_R$  less than 0.1  $\mu A$
- 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 AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	B40 C800G	B80 C800G	B125 C800G	B250 C800G	B380 C800G	UNITS
Maximum repetitive peak reverse voltage	VRRM	65	125	200	400	600	Volts
Maximum RMS input voltage R + C-load	VRMS	40	80	125	250	380	Volts
Maximum average forward output current for free air operation at $T_A=45^\circ C$ R + L-load C-Load	$I_{(AV)}$	0.9 0.8					Amps
Maximum non-repetitive peak voltage	VRSM	100	200	350	600	1000	Volts
Maximum DC blocking voltage	VDC	65	125	200	400	600	Volts
Maximum peak working voltage	VRWM	90	180	300	600	900	Volts
Maximum repetitive peak forward surge current	IFRM	10.0					Amps
Peak forward surge current single sine wave on rated load at $T_J=125^\circ C$	IFSM	45.0					Amps
Rating for fusing at $T_J=125^\circ C$ (t<100ms)	It	10.0					A <sup>2</sup> sec
Minimum series resistor C-load at $V_{RMS} = \pm 10\%$	Rt	1.0	2.0	4.0	8.0	12.0	Ohms
Maximum load capacitance +50% -10%	CL	5000	2500	1000	500	200	$\mu F$
Maximum instantaneous forward voltage drop per leg at 0.9A	V <sub>F</sub>	1.0					Volts
Maximum reverse current at rated repetitive peak voltage per leg	$I_R$	10.0					$\mu A$
Typical thermal resistance per leg (NOTE 1)	R <sub>θJA</sub> R <sub>θJL</sub>	36.0 11.0					°C/W
Operating junction temperature range	T <sub>J</sub>	-40 to +125					°C
Storage temperature range	T <sub>STG</sub>	-40 to +150					°C

**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 CHARACTERISTICS CURVES B40C800G THRU B380C800G**

