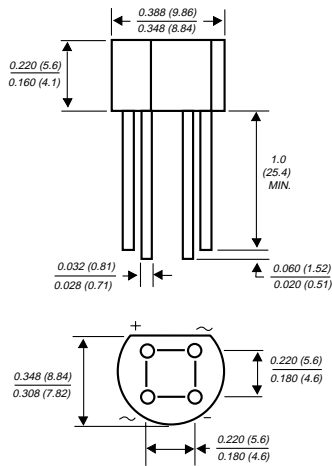


B40C800G THRU B380C800G

GLASS PASSIVATED SINGLE - PHASE BRIDGE RECTIFIER

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

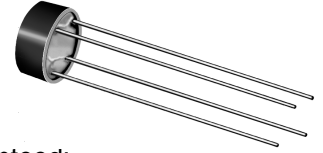
Case Style WOG



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 | V_{RRM} | 65 | 125 | 200 | 400 | 600 | Volts |
| Maximum RMS input voltage R + C-load | V_{RMS} | 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 | V_{RSM} | 100 | 200 | 350 | 600 | 1000 | Volts |
| Maximum DC blocking voltage | V_{DC} | 65 | 125 | 200 | 400 | 600 | Volts |
| Maximum peak working voltage | V_{RWM} | 90 | 180 | 300 | 600 | 900 | Volts |
| Maximum repetitive peak forward surge current | I_{FRM} | 10.0 | | | | | Amps |
| Peak forward surge current single sine wave on rated load at $T_J=125^\circ C$ | I_{FSM} | 45.0 | | | | | Amps |
| Rating for fusing at $T_J=125^\circ C$ ($t < 100ms$) | I^2t | 10.0 | | | | | A ² sec |
| Minimum series resistor C-load at $V_{RMS} = \pm 10\%$ | R_t | 1.0 | 2.0 | 4.0 | 8.0 | 12.0 | Ohms |
| Maximum load capacitance +50% -10% | C_L | 5000 | 2500 | 1000 | 500 | 200 | μF |
| Maximum instantaneous forward voltage drop per leg at 0.9A | V_F | 1.0 | | | | | Volts |
| Maximum reverse current at rated repetitive peak voltage per leg | I_R | 10.0 | | | | | μA |
| Typical thermal resistance per leg (NOTE 1) | $R_{\theta JA}$ $R_{\theta JL}$ | 36.0 11.0 | | | | | $^\circ C/W$ |
| Operating junction temperature range | T_J | -40 to +125 | | | | | $^\circ C$ |
| Storage temperature range | T_{STG} | -40 to +150 | | | | | $^\circ C$ |

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

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

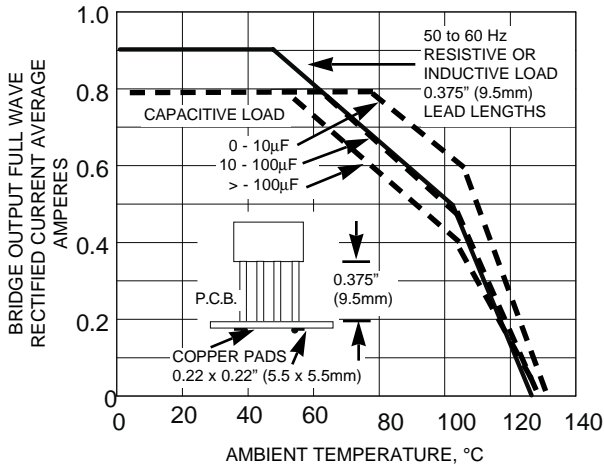


FIG. 2 - DERATING CURVES FOR OUTPUT RECTIFIED CURRENT B250C800G...B380C800G

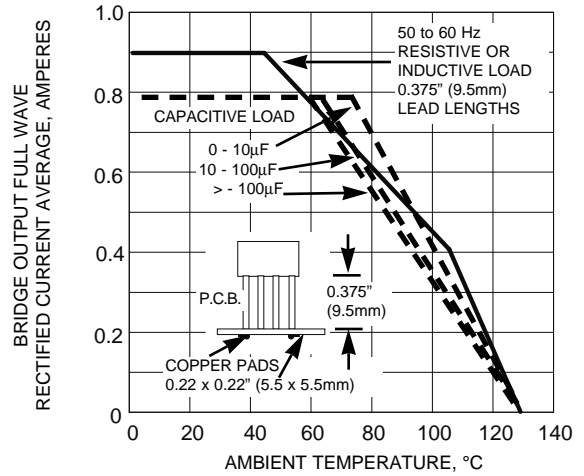


FIG. 3 - MAXIMUM NON-REPETITIVE PEAK FORWARD CURRENT PER LEG

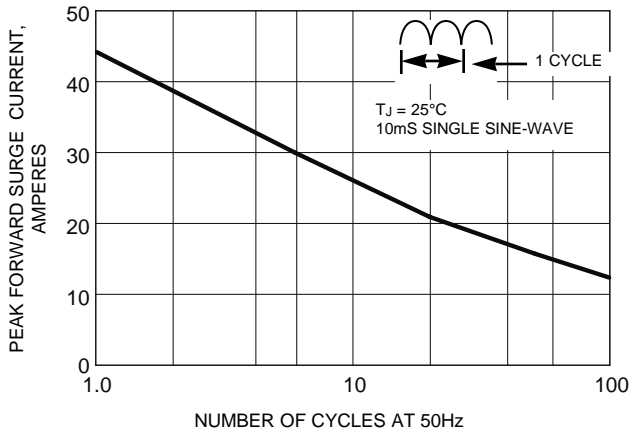


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS PER LEG

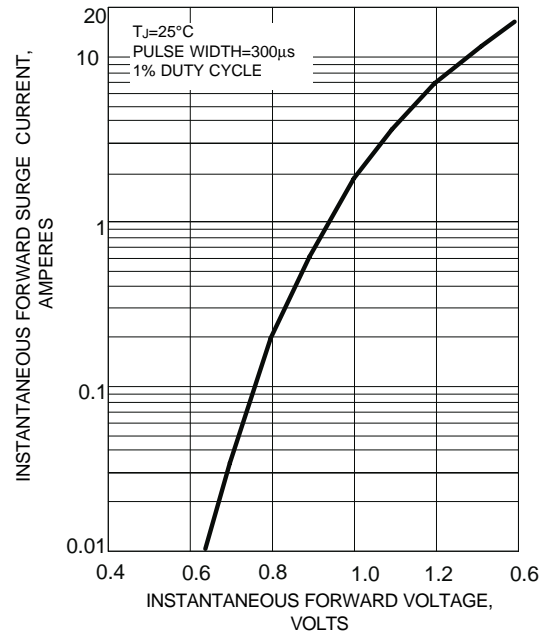


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS PER LEG

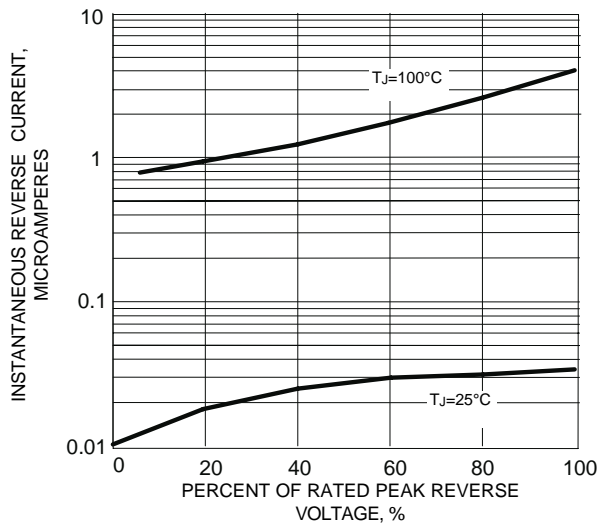
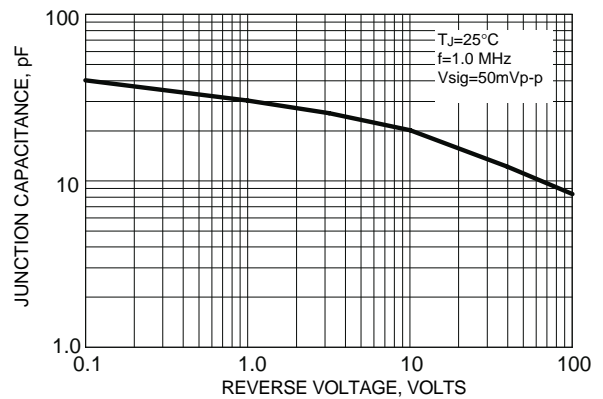


FIG. 6 - TYPICAL JUNCTION CAPACITANCE PER LEG



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