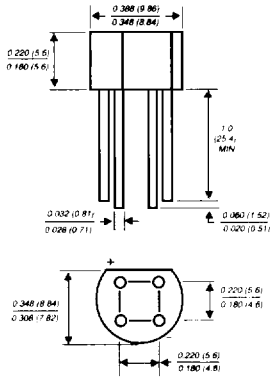


B40C800G THRU B380C800G

MINIATURE 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 $T_J=125^\circ C$ ($t < 100ms$)	I^2t	10.0					A ² 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	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 $T_A=25^\circ C$	I_R	10.0					μA
Typical thermal resistance per leg (NOTE 1)	$R_{\theta JA}$ $R_{\theta JL}$	36.0					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 B40C800M...B125C800M

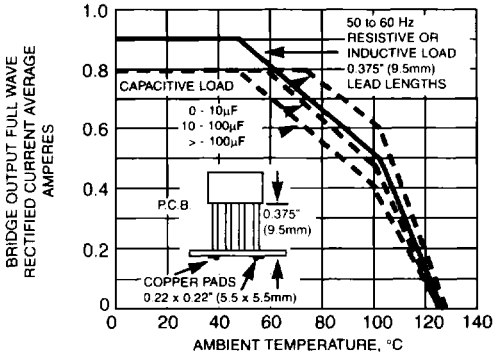


FIG. 2 - DERATING CURVES FOR OUTPUT RECTIFIED CURRENT B250C800M...B380C800M

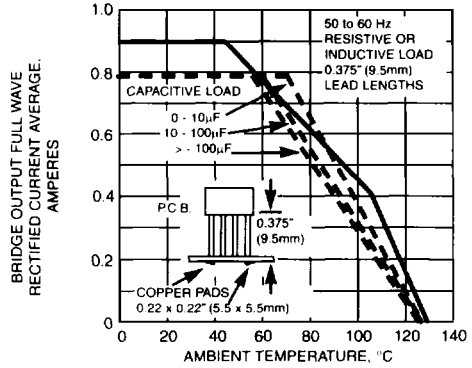


FIG. 3 - MAXIMUM NON-REPETITIVE PEAK FORWARD CURRENT PER LEG

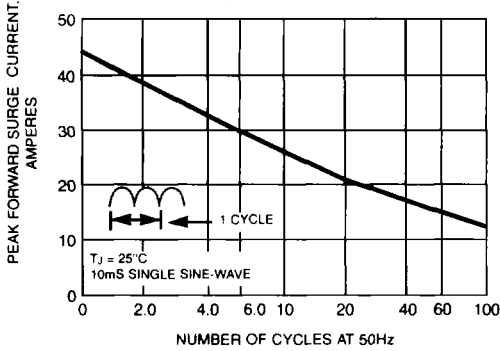


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS PER LEG

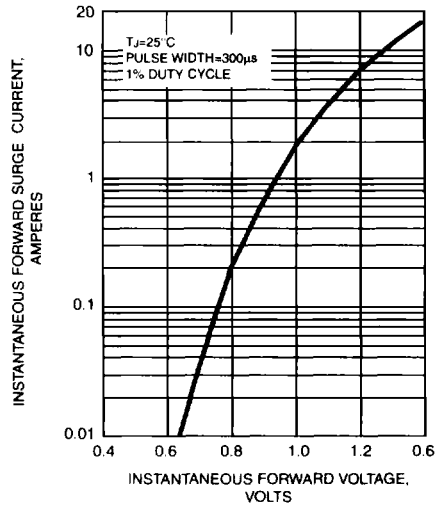


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS PER LEG

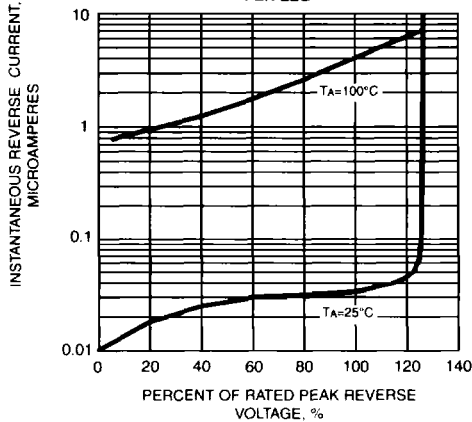


FIG. 6 - TYPICAL JUNCTION CAPACITANCE PER LEG

