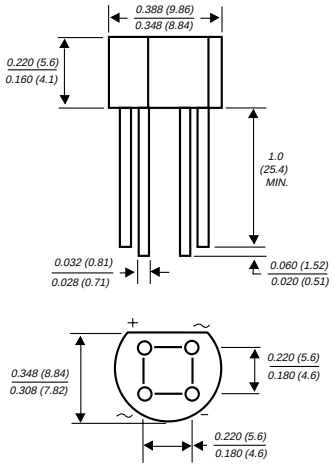
B40C1500G THRU B380C1500G

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

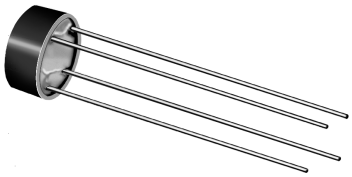
***Reverse Voltage** - 65 to 600 Volts **Forward Current** - 1.5 Amperes*

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 0.1µA
- 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 AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	*B40 C1500G*	*B80 C1500G*	*B125 C1500G*	*B250 C1500G*	*B380 C1500G*	*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 DC blocking voltage	V_{DC}	65	125	200	400	600	Volts
Maximum peak working voltage	V_{RWM}	90	180	300	600	800	Volts
Maximum non-repetitive peak voltage	V_{RSM}	100	200	350	650	1000	Volts
Maximum repetitive peak forward surge current	I_{FRM}	10.0					Amps
Maximum average forward output current for free air operation at T_A=45°C R + L-load C-load	$I_{(AV)}$	1.6 1.5					Amps
Peak forward surge current single sine wave on rated load at T_J=125°C	I_{FSM}	50.0					Amps
Rating for fusing at T_J=125°C (t<100ms)	I^2t	12.5					A^2sec
Min. series resistor C-load at V_{RMS} = ±10%	Rt	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 1.5A	V_F	1.0					Volts
Maximum reverse current at rated repetitive peak voltage per leg T_A=25°C	I_R	10.0					µA
Typical thermal resistance per leg (NOTE 1)	$R_{\Theta JA}$ $R_{\Theta JL}$	36.0 11.0					°C/W
Operating junction temperature range	T_J	-40 to +125					°C
Storage temperature range	T_{STG}	-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"

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RATINGS AND CHARACTERISTICS CURVES B40C1500G THRU B380C1500G

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

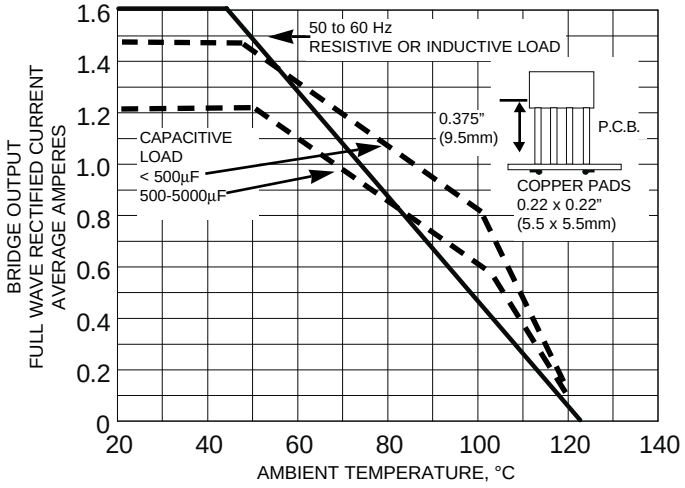


FIG.2 - DERATING CURVES OUTPUT RECTIFIED CURRENT FOR B250C1500G...B380C1500G

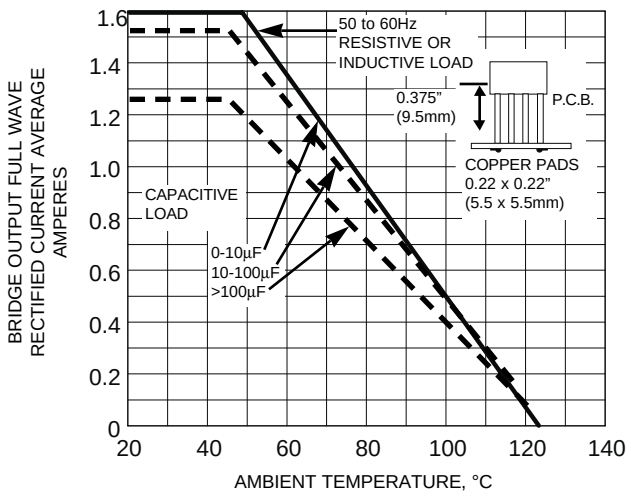


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

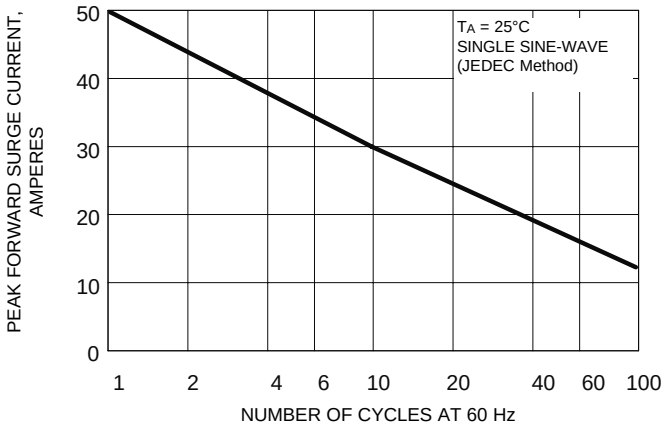


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS PER LEG

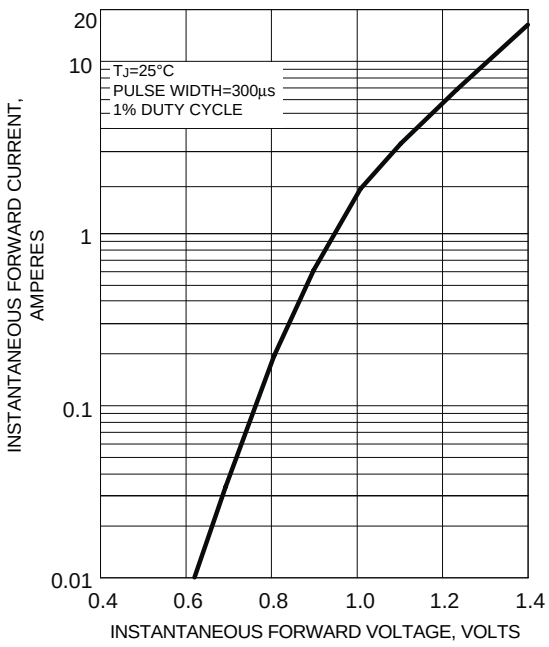


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS PER LEG

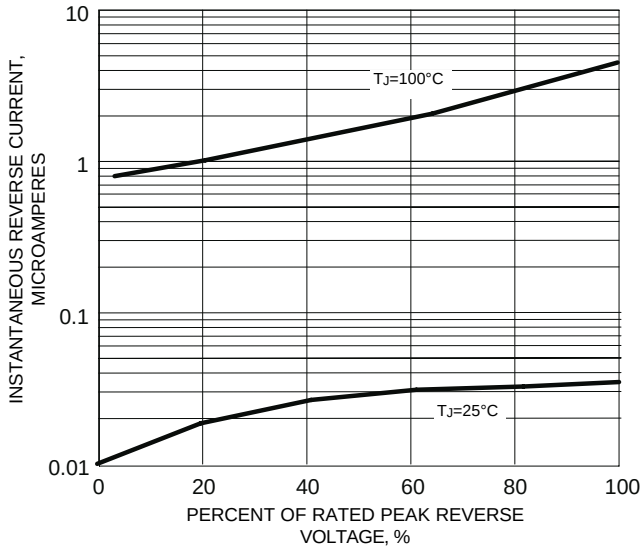
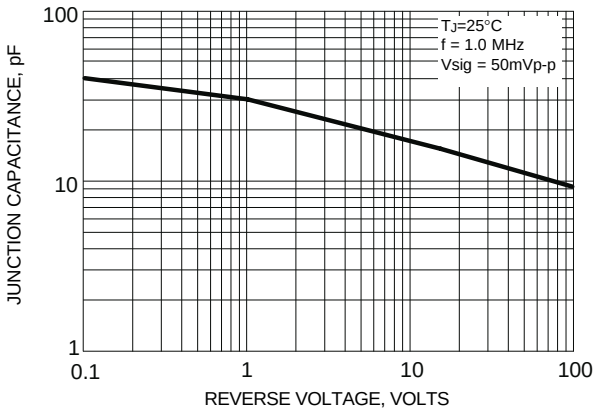


FIG. 6 - TYPICAL JUNCTION CAPACITANCE PER LEG



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