



Carvic International Ltd.

B40C1500 THRU B500C1500

FEATURES

- Plastic material used carried Underwriters laboratory recognition.
- High case Dielectric strength.
- Typical I_r less than 1 μA .
- Exceeds environmental standards of MIL-STD-19500.
- Ideal for printed circuit board.
- High temperature soldering guaranteed:
265°C /10 seconds / .375" (9.5mm) lead length at 5 lbs., (2.3kg) tension.

MECHANICAL DATA

Case: Reliable low cost construction utilizing molded plastic technique.

Terminals: Leads, solderable per MIL-STD-202, Method 208.

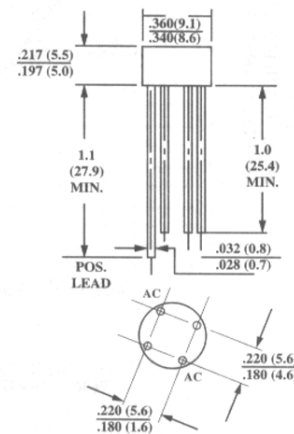
Mounting position: Any.

Weight: 0.04 ounces, 1.1 grams.

VOLTAGE RANGE
90 to 1200 Volts

CURRENT
1.5 Amperes

RB-10



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load 60 Hz.

For capacitive load, derate current by 20%.

	B40C1500	B80C1500	B125C1500	B250C1500	B380C1500	B500C1500	UNITS
Maximum Recurrent Peak Reverse Voltage	90	180	350	600	900	1200	VRRM
Maximum RMS Bridge Input Voltage	70	140	280	420	560	700	VRMS
Maximum DC Blocking Voltage	90	180	350	600	900	1000	VDC
Maximum Average Forward Rectified Current 373" (9.5mm) Lead Lengths at $T_A=25^\circ C$	1.5						A(AV)
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	50						A ² S
I ² t Rating for Fusing (t<.00835ms)	5.0						
Maximum Forward Voltage Drop per Element at 1.0A	1.0						V
Maximum DC Reverse Current, at rated DC Blocking Voltage $T_A=25^\circ C$ $T_A=100^\circ C$	10.0 1.0						μA mA
Typical Junction Capacitance per Bridge Element	24.0						pF
Operating Temperature Range, T_A	- 65 To + 125						°C
Storage Temperature Range TSTG	- 65 To + 150						°C

NOTES: 1.-Measured at 1 MHz and applied reverse voltage of 4.0 VDC.



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RATING AND CHARACTERISTIC CURVES (B40C1500 THRU B500C1500)

FIG.1 - DERATING CURVE
OUTPUT RECTIFIED CURRENT
FOR B40C 1500...B125C 1500

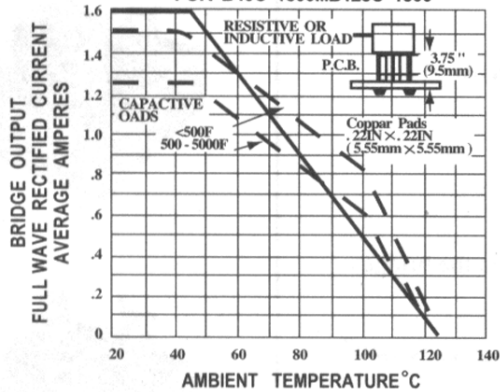


FIG.2 DERATING CURVE
OUTPUT RECTIFIED CURRENT
B250 1500G...B380C 1500G

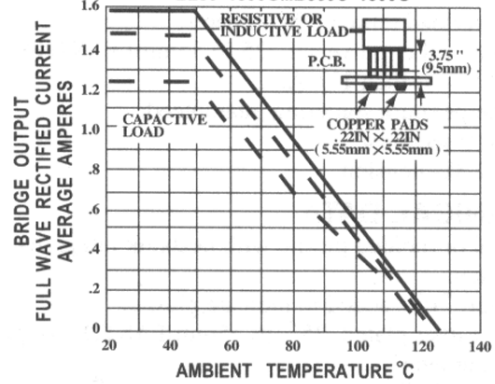


FIG.3 - TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT

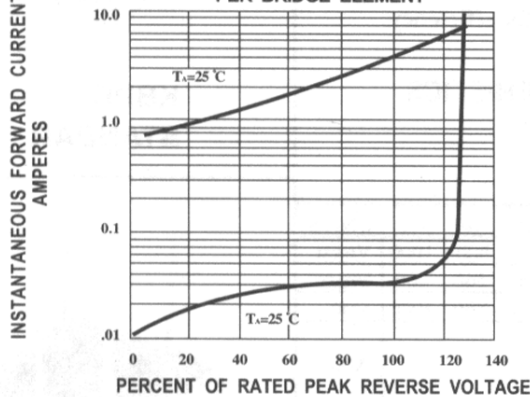


FIG.4 - TYPICAL FORWARD CHARACTERISTICS
PER BRIDGE ELEMENT

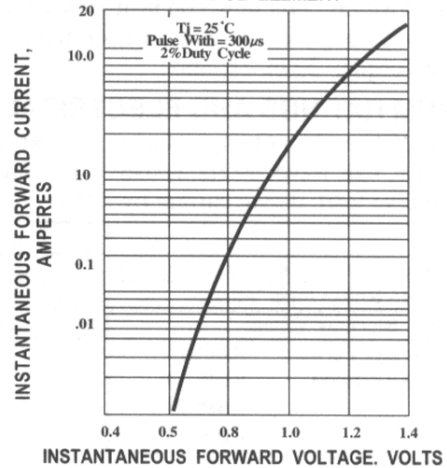


FIG.5 - MAXIMUM NON-REPETITVE PEAK
FORWARD SURGE CURRENT
PRE BRIDGE ELEMENT

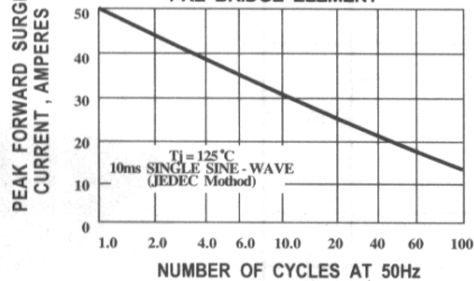


FIG.6 - TYPICAL JUNCTION CAPACITANCE
PER BRIDGE ELEMENT

