
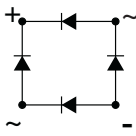




1.5 Amp. Glass Passivated Bridge Rectifier

<p style="text-align: center;">ROUND</p>  	<p style="text-align: center;">Voltage 100 V to 900 V</p> <p style="text-align: center;">Current 1.5 A</p>
	<p>FEATURES</p> <ul style="list-style-type: none"> • High case dielectric strength • High forward surge current capability • Ideal for printed circuit boards • Solder dip 260°C, 40s • Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC • Typical I_R less than 0.1 μA <div style="text-align: right;">   RoHS COMPLIANT </div>
	<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: ROUND <p>Epoxy meets UL 94V-0 flammability rating.</p> <ul style="list-style-type: none"> • Polarity: As marked on body. • Terminals: Silver plated leads, solderable per J-STD-002 and JESD22-B102. Consumer grade.
	<p>TYPICAL APPLICATIONS</p> <p>Used in ac-to-dc bridge full wave rectification for SMPS, lighting ballaster, adapter, battery charger, home appliances, office equipment, and telecommunication applications..</p>

Maximun Ratings and Electrical Characteristics at 25°C

		B40C1500R	B80C1500R	B125C1500R	B250C1500R	B380C1500R
Marking code		B40C1500R	B80C1500R	B125C1500R	B250C1500R	B380C1500R
V_{RRM}	Peak recurrent reverse voltage (V)	100	200	300	600	900
V_{RMS}	Maximum RMS voltage (V)	70	140	210	420	630
V_R	Recommended Input Voltage (V)	40	80	125	250	380
$I_{F(AV)}$	Forward current at $T_{amb} = 25^\circ\text{C}$ R Load C Load	1.6 A 1.5 A				
I_{FRM}	Recurrent peak forward current	15 A				
I_{FSM}	10 ms. peak forward surge current (Jedec Method)	50 A				
I^2t	I^2t value for fusing (t = 10 ms)	12 A ² sec				
T_j	Operating temperature range	– 40 to + 125 °C				
T_{stg}	Storage temperature range	– 40 to + 150 °C				

Electrical Characteristics at $T_{amb} = 25^\circ\text{C}$

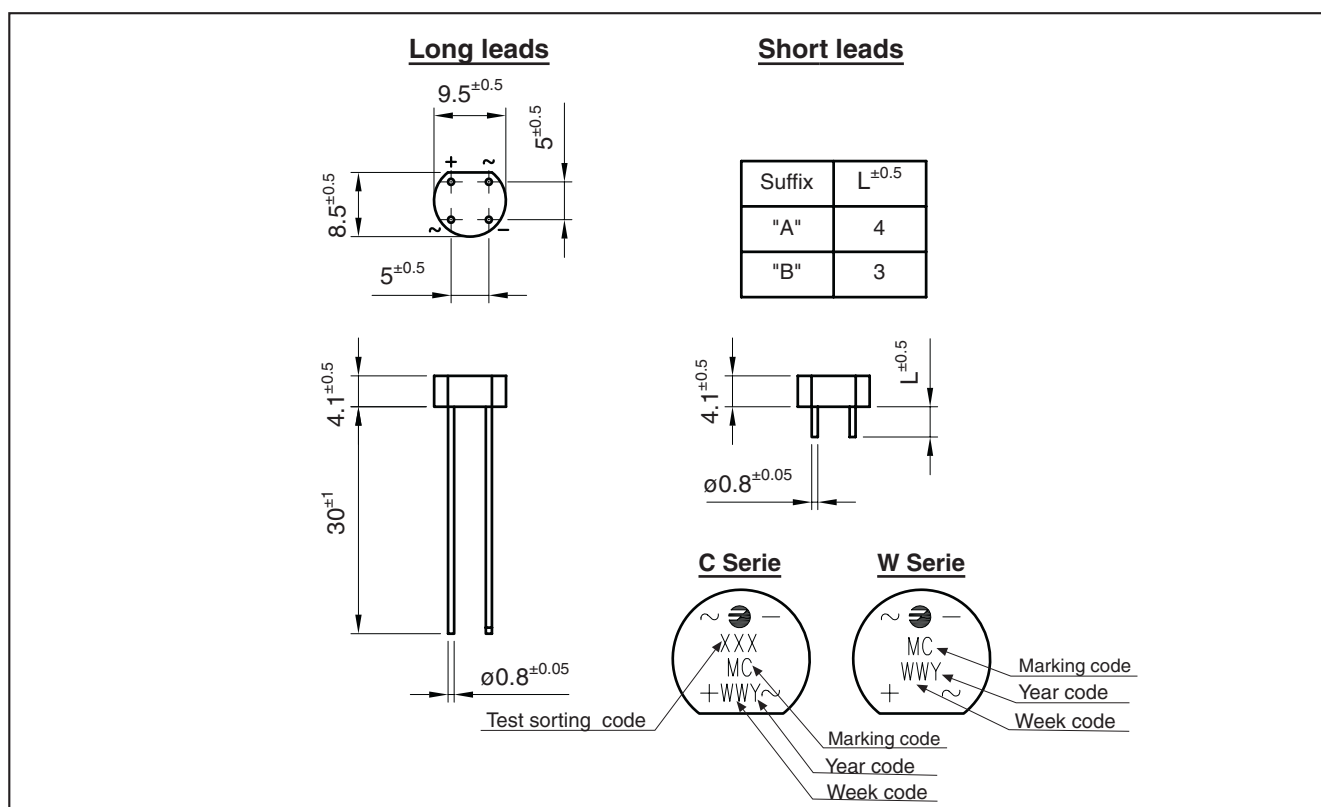
V_F	Max. forward voltage drop per element at $I_F = 1.5\text{ A}$	1.1 V
I_R	Max. reverse current per element at V_{RRM}	10 μ A

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Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
B40C1500R	BU	BULK	1,000	1.12
B40C1500RA	BU	BULK	3,000	1.09
B40C1500RB	BU	BULK	3,000	1.09

Package Outline Dimensions: (mm) ROUND



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Ratings and Characteristics (Ta 25 °C unless otherwise noted)

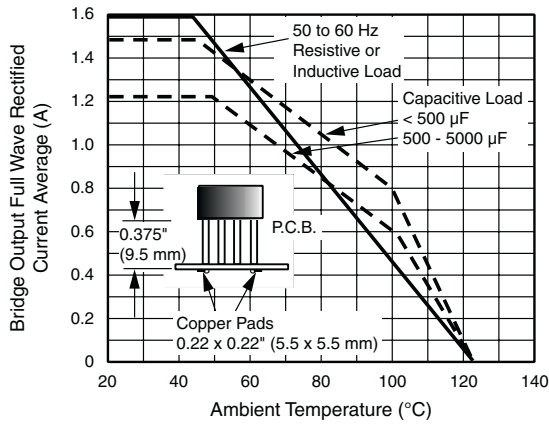


Figure 1. Derating Curves Output Rectified Current for B40C1500R...B125C1500R

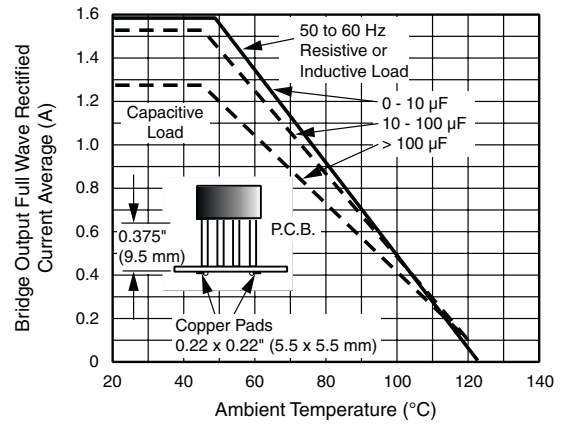


Figure 2. Derating Curves Output Rectified Current for B250C1500R...B380C1500R

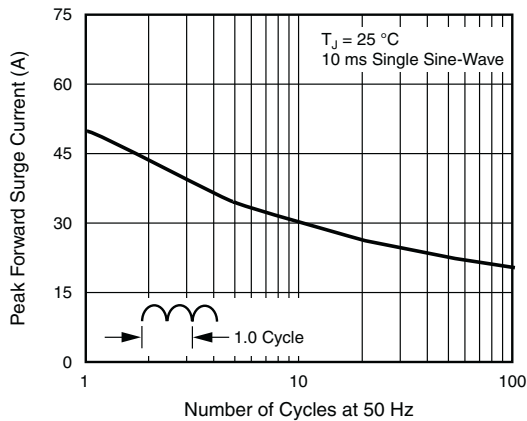


Figure 3. Maximum Non-Repetitive Peak Forward Surge Current Per Diode

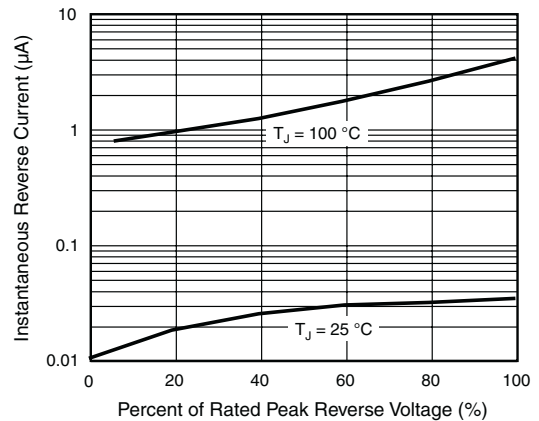


Figure 4. Typical Reverse Characteristics Per Diode

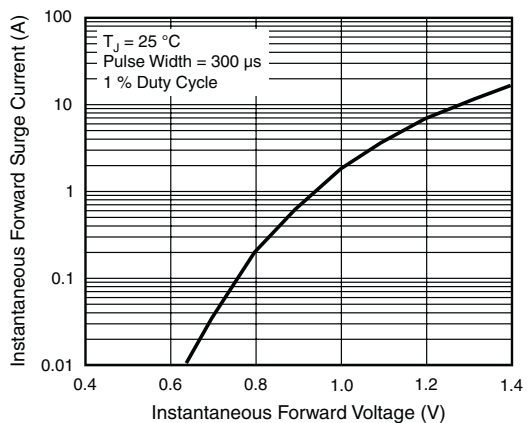


Figure 5. Typical Forward Characteristics Per Diode

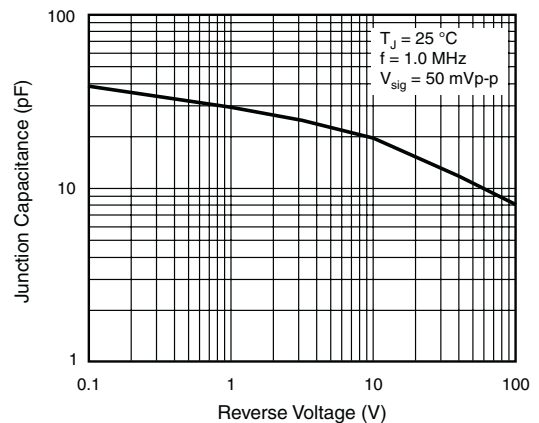


Figure 6. Typical Junction Capacitance Per Diode

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