

B40C1500 – B500C1500

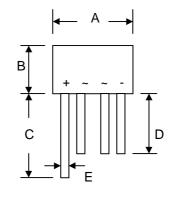
1.5A SINGLE-PHASE BRIDGE RECTIFIER

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Recognized File # E157705

Mechanical Data

- Case: WOB, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 1.1 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



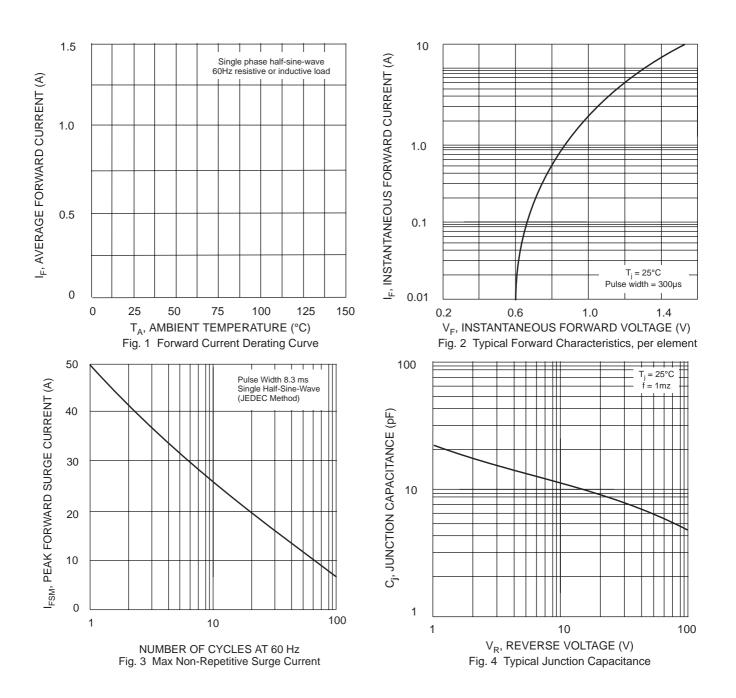
| WOB | | | | |
|----------------------|------|------|--|--|
| Dim | Min | Max | | |
| Α | 8.60 | 9.10 | | |
| В | 5.0 | 5.50 | | |
| С | 27.9 | — | | |
| D | 25.4 | — | | |
| Е | 0.71 | 0.81 | | |
| G | 4.60 | 5.60 | | |
| All Dimensions in mm | | | | |

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

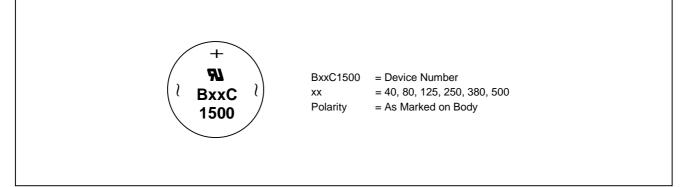
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristic | Symbol | B40C 1500 | B80C 1500 | B125C 1500 | B250C 1500 | B380C 1500 | B500C 1500 | Unit |
|---|--------------------|--------------|--------------|---------------|---------------|---------------|---------------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | Vrrm Vrwm Vr | 100 | 200 | 300 | 600 | 900 | 1200 | V |
| Input Voltage Recommended | VR(RMS) | 40 | 80 | 125 | 250 | 380 | 500 | V |
| Average Rectified Output Current (Note 1) $@T_A = 50^{\circ}C$ | ю | | | 1 | .5 | | | А |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | | | 5 | 60 | | | A |
| Forward Voltage (per element) $@I_F = 1.5A$ | Vfm | | | 1 | .0 | | | V |
| Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$ | Iгм | | | | .0 00 | | | μA |
| Operating Temperature Range | Tj | | | -55 to | +125 | | | °C |
| Storage Temperature Range | Тѕтс | | | -55 to | +150 | | | °C |

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.



MARKING INFORMATION



PACKAGING INFORMATION

BULK

| Inner Box Size | Quantity | Carton Size | Quantity | Approx. Gross Weight |
|----------------|----------|-----------------|----------|----------------------|
| L x W x H (mm) | (PCS) | L x W x H (mm) | (PCS) | (KG) |
| 260 x 190 x 80 | 1,000 | 400 x 273 x 415 | 10,000 | 14.0 |

Note: 1. Paper box, white or brown color.

| Product No. | Package Type | Shipping Quantity |
|-------------|--------------|-------------------|
| B40C1500 | Round Bridge | 1000 Units/Box |
| B80C1500 | Round Bridge | 1000 Units/Box |
| B125C1500 | Round Bridge | 1000 Units/Box |
| B250C1500 | Round Bridge | 1000 Units/Box |
| B380C1500 | Round Bridge | 1000 Units/Box |
| B500C1500 | Round Bridge | 1000 Units/Box |

ORDERING INFORMATION

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

2. To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, B40C1500-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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