



4.0A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

Features

Glass Passivated Die Construction Low Forward Voltage Drop **High Current Capability** Н GBL High Reliability Max Min Dim High Surge Current Capability В 20.7 20.9 Α Ideal for Printed Circuit Boards E В 10.4 10.7 Recognized File # E157705 С 3.25 3.56 D D 18.2 17.3 2.03 Ε 1.50 **Mechanical Data** G 2.03 2.41 3.17 x 45° н Case: GBL, Molded Plastic J 1.02 1.27 Terminals: Plated Leads Solderable per κ 1.27 1.53 MIL-STD-202, Method 208 0.46 0.56 L Polarity: As Marked on Body Ρ 4.8 5.3 Weight: 2.0 grams (approx.) All Dimensions in mm Mounting Position: Any Marking: Type Number Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

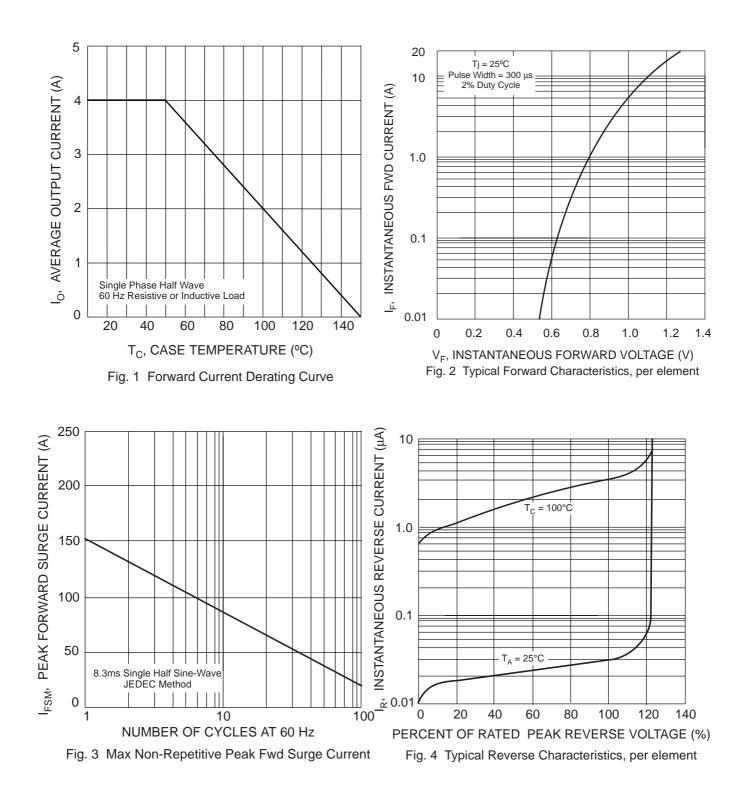
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

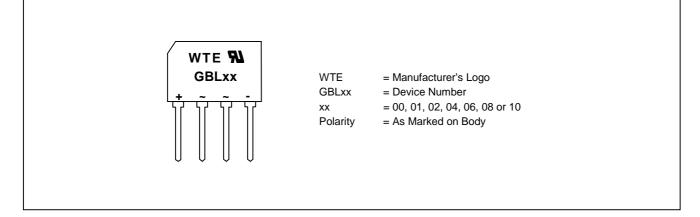
| Characteristic | Symbol | GBL 00 | GBL 01 | GBL 02 | GBL 04 | GBL 06 | GBL 08 | GBL 10 | Unit |
|---|--------------------|-------------|-----------|-----------|------------|-----------|-----------|-----------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | Vrrm Vrwm Vr | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| RMS Reverse Voltage | VR(RMS) | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current $@T_c = 50^{\circ}C$ | lo | | | | 4.0 | | | | А |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | | | | 150 | | | | A |
| Forward Voltage per leg $@I_F = 2.0A$ | VFM | | | | 1.1 | | | | V |
| Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$ | IR | | | | 5.0 500 | | | | μA |
| Typical Thermal Resistance per leg (Note 1) | R∂JA | 22 | | | | | °C/W | | |
| Typical Thermal Resistance per leg (Note 2) | R∉JL | 3.5 | | | | | | °C/W | |
| Operating and Storage Temperature Range | Tj, TSTG | -55 to +150 | | | | °C | | | |

Note: 1. Mounted on 75 x 75 x 3.0mm Al. plate.

2. Mounted on PCB at 9.5mm lead length with 12mm² copper pad.



MARKING INFORMATION



PACKAGING INFORMATION

BULK

| Tube Size | Quantity | Inner Box Size | Quantity | Carton Size | Quantity | Approx. Gross Weight |
|----------------|----------|----------------|----------|-----------------|----------|----------------------|
| L x W x H (mm) | (PCS) | L x W x H (mm) | (PCS) | L x W x H (mm) | (PCS) | (KG) |
| 443 x 31 x 6 | 20 | 450 x 136 x 72 | 800 | 495 x 245 x 180 | 2,400 | 10.0 |

Note: 1. Anti-static tube, water clear color.

ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity |
|-------------|--------------|-------------------|
| GBL00 | SIL Bridge | 20 Units/Tube |
| GBL01 | SIL Bridge | 20 Units/Tube |
| GBL02 | SIL Bridge | 20 Units/Tube |
| GBL04 | SIL Bridge | 20 Units/Tube |
| GBL06 | SIL Bridge | 20 Units/Tube |
| GBL08 | SIL Bridge | 20 Units/Tube |
| GBL10 | SIL Bridge | 20 Units/Tube |

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
To order Lead Free version (with Lead Free finish), add "-LF" suffix to

To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, GBL00-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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