



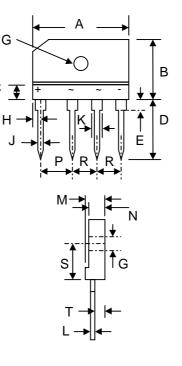
15A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Recognized File # E157705

Mechanical Data

- Case: GBJ-6, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 7.0 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 10 cm-kg (8.8 in-lbs) Max.
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



| GBJ-6 | | | | | |
|----------------------|------|------|--|--|--|
| Dim | Min | Max | | | |
| Α | 29.7 | 30.3 | | | |
| В | 19.7 | 20.3 | | | |
| С | — | 5.0 | | | |
| D | 17.0 | 18.0 | | | |
| ш | 3.8 | 4.2 | | | |
| G | 3.1Ø | 3.4Ø | | | |
| Н | 2.3 | 2.7 | | | |
| J | 0.9 | 1.1 | | | |
| к | 1.8 | 2.2 | | | |
| L | 0.6 | 0.8 | | | |
| м | 4.4 | 4.8 | | | |
| N | 3.4 | 3.8 | | | |
| Р | 9.8 | 10.2 | | | |
| R | 7.3 | 7.7 | | | |
| s | 10.8 | 11.2 | | | |
| Т | 2.3 | 2.7 | | | |
| All Dimensions in mm | | | | | |

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

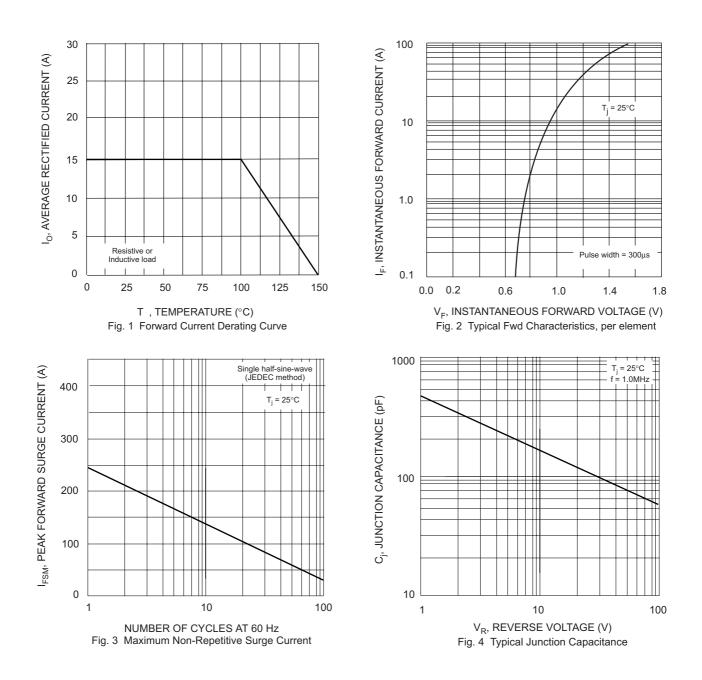
С

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

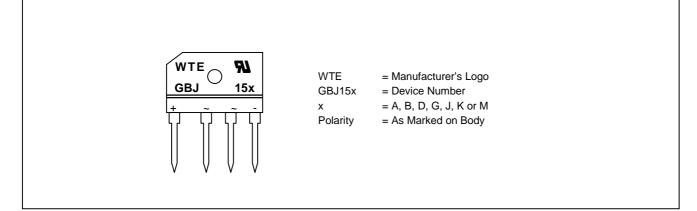
| Characteristic | Symbol | GBJ 15A | GBJ 15B | GBJ 15D | GBJ 15G | GBJ 15J | GBJ 15K | GBJ 15M | Unit |
|---|--------------------|------------|------------|------------|------------|------------|------------|------------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking 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 $@T_c = 100^{\circ}C$ (Note 1) | lo | | | | 15 | | | | А |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 240 | | | | | A | | |
| Forward Voltage per diode $@I_F = 7.5A$ | Vfm | | | | 1.05 | | | | V |
| Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$ | IR | 10 250 | | | μA | | | | |
| Typical Thermal Resistance per leg (Note 2) | R∂JA | 22 | | | | | °C/W | | |
| Typical Thermal Resistance per leg (Note 1) | R∉JC | 1.5 | | | | | °C/W | | |
| Operating and Storage Temperature Range | Tj, TSTG | | | - | 55 to +15 | 0 | | | °C |

Note: 1. Device mounted on 300 x 300 x 1.6mm thick Cu plate heatsink.

2. Device mounted on P.C.B. without heatsink.



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) |
| 475 x 40 x 7 | 15 | 490 x 145 x 135 | 750 | 510 x 305 x 160 | 1,500 | 16.0 |

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

ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity |
|-------------|--------------|-------------------|
| GBJ15A | SIL Bridge | 15 Units/Tube |
| GBJ15B | SIL Bridge | 15 Units/Tube |
| GBJ15D | SIL Bridge | 15 Units/Tube |
| GBJ15G | SIL Bridge | 15 Units/Tube |
| GBJ15J | SIL Bridge | 15 Units/Tube |
| GBJ15K | SIL Bridge | 15 Units/Tube |
| GBJ15M | SIL Bridge | 15 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, GBJ15A-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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