

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

GBJ15A THRU GBJ15M

TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED BRIDGE RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 15 Amperes

FEATURES

- * Ideal for printed circuit boardd
- * High surge current capability
- * Low forward voltage drop
- * Glass passivated junction

MECHANICAL DATA

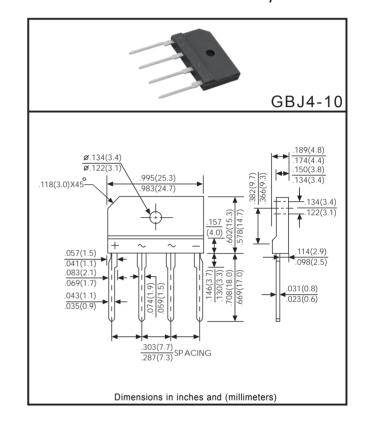
* Case: Molded plastic

* Epoxy: UL 94-V0 rate flame retardant
* Terminals: Solder plated solderable per
MIL-STD-750, Method 2026

* Polarity: As marked * Mounting position: Any * Weight: 4.6 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

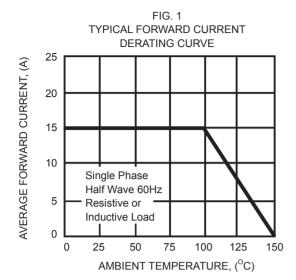


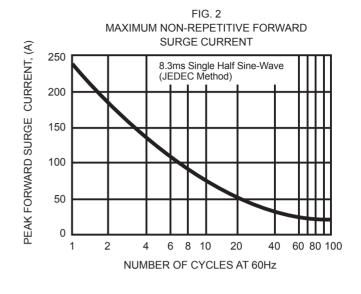
| | SYMBOL | GBJ15A | GBJ15B | GBJ15D | GBJ15G | GBJ15J | GBJ15K | GBJ15M | UNITS |
|---|------------------|-------------|--------|--------|--------|--------|------------------|--------|----------------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current at TA = 100°C | lo | 15 | | | | | | | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 240 | | | | | Amps | | |
| Maximum Instantaneous Forward Voltage at 7.5A DC | VF | 1.1 | | | | Volts | | | |
| Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ = 25°C @TJ = 125°C | - IR | 10 100 | | | | | | | μ A mps |
| I ² t Rating for Fusing (t<8.3mS) | l ² t | 240 | | | | | A ² s | | |
| Operating and Storage Temperature Range | TJ,TSTG | -55 to +150 | | | | | °C | | |

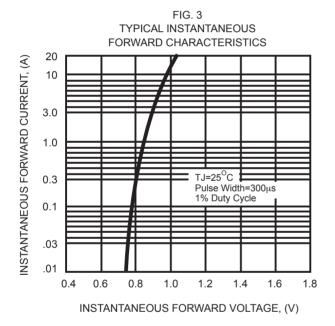
NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

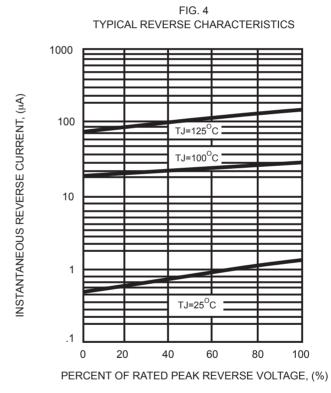
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RATING AND CHARACTERISTIC CURVES (GBJ15A THRU GBJ15M)









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