

GBJ1501 THRU GBJ1507



SINGLE PHASE 15.0 AMP BRIDGE RECTIFIERS



FEATURES

- * Ideal for printed circuit board
- * Low forward voltage
- * Low leakage current

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Plated leads solderable per MIL-STD-202, method 208 guaranteed
- * Mounting position: Any
- * Weight: 6.8 grams

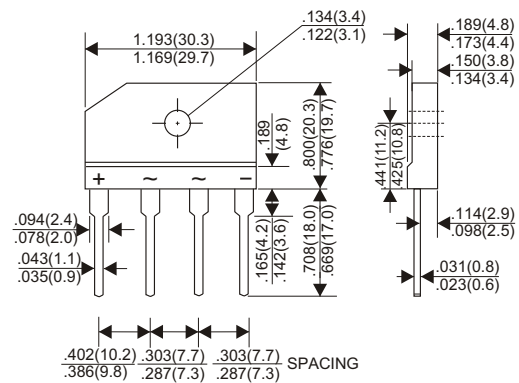
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

15.0 Amperes

GBJ



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	GBJ1501	GBJ1502	GBJ1503	GBJ1504	GBJ1505	GBJ1506	GBJ1507	UNITS	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
Maximum Average Forward (with heatsink Note 2)								15.0	A
Rectified Current at Tc=100°C (Without heatsink)								3.2	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)								240	A
Maximum Forward Voltage Drop per Bridge Element at 7.5A D.C.								1.1	V
Maximum DC Reverse Current Ta=25°C								5.0	μA
at Rated DC Blocking Voltage Ta=100°C								500	μA
Typical Junction Capacitance (Note 1)								60	PF
Typical Thermal Resistance Rθjc (Note 2)								0.8	°C/W
Operating Temperature Range, Tj								-55 — +150	°C
Storage Temperature Range, Tstg								-55 — +150	°C

NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal Resistance from Junction to Case with device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES (GBJ1501 THRU GBJ1507)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

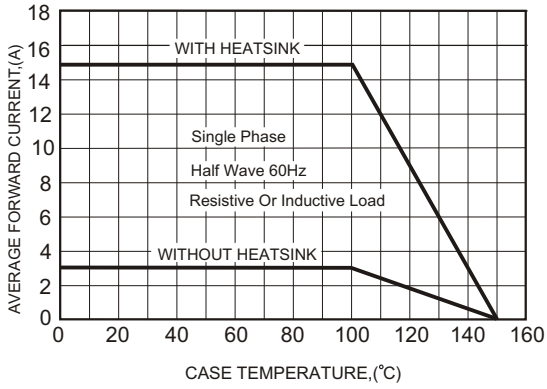


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

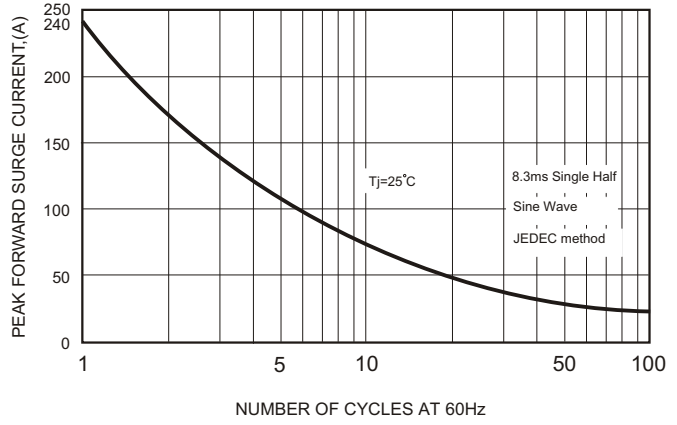


FIG.3-TYPICAL FORWARD CHARACTERISTICS

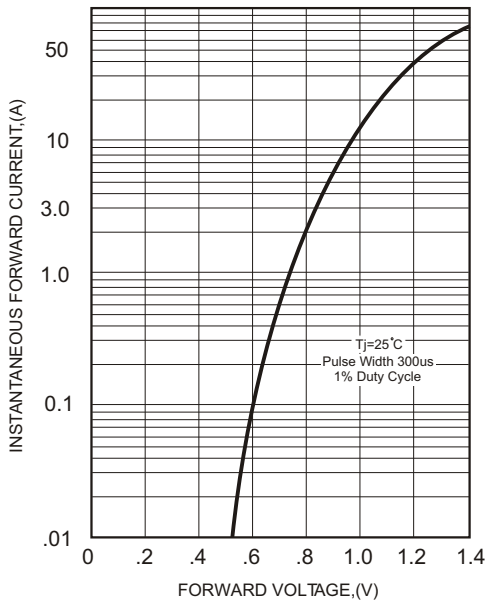


FIG.4-TYPICAL REVERSE CHARACTERISTICS

