



GBJ15005 THRU GBJ1510

SINGLE PHASE 15.0 AMP BRIDGE RECTIFIERS



FEATURES

- * Ideal for printed circuit board
- * Low forward voltage
- * Low leakage current
- * Mounting position: Any

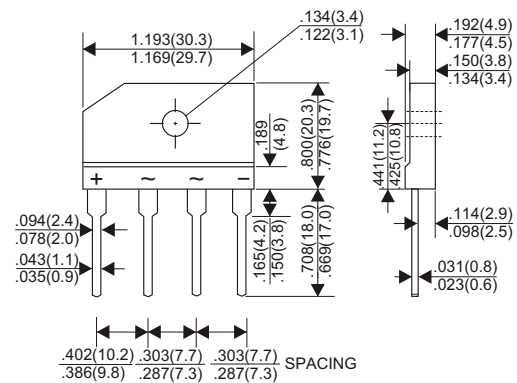
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

15.0 Amperes

GBJ



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	GBJ15005	GBJ1501	GBJ1502	GBJ1504	GBJ1506	GBJ1508	GBJ1510	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
.375"(9.5mm) Lead Length at Tc=100°C (With 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 3.0A D.C.				1.05				V
Maximum DC Reverse Current Ta=25°C				10				µA
at Rated DC Blocking Voltage Ta=125°C				500				µA
Typical Junction Capacitance (Note 1)				60				PF
Typical Thermal Resistance R _{jc} (Note 2)				0.8				°C/W
Operating Temperature Range, T _J				-55 — +150				°C
Storage Temperature Range, T _{stg}				-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 (GBJ15005 THRU GBJ1510)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

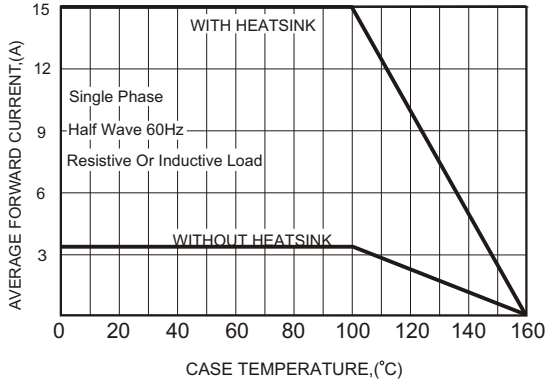


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

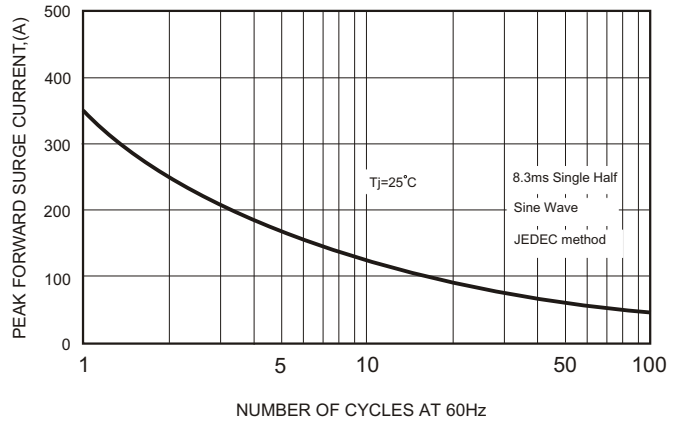


FIG.3-TYPICAL FORWARD CHARACTERISTICS

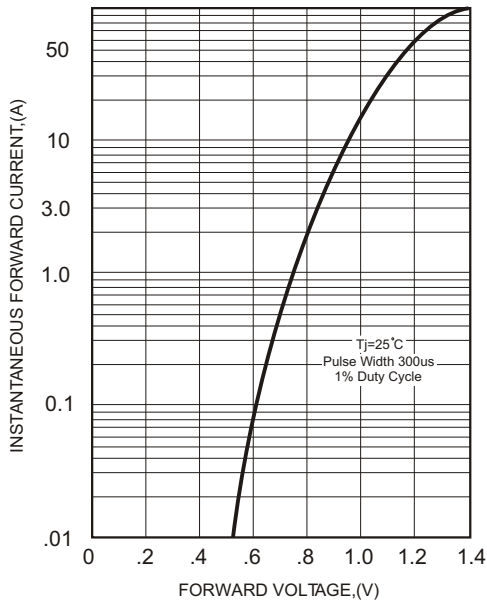
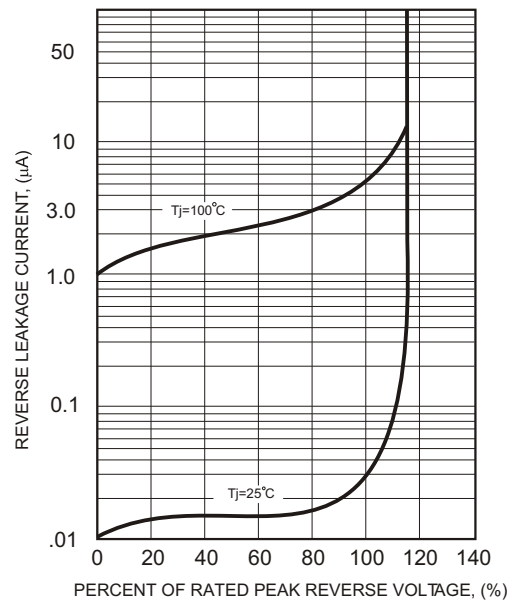


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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