GBU25005 THRU GBU2510

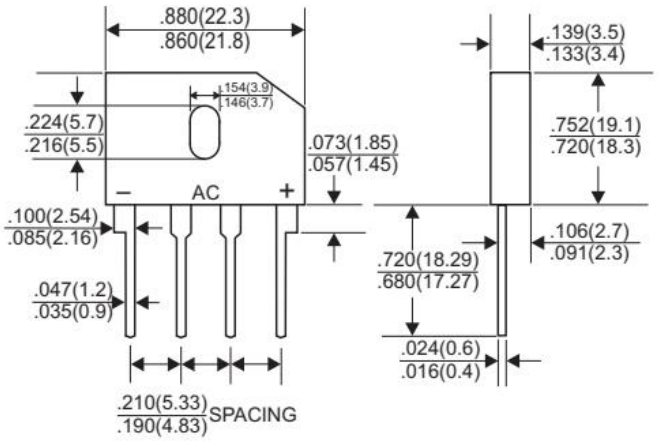
SINGLE PHASE 25.0 AMP BRIDGE RECTIFIERS

FEATURES

* Ideal for printed circuit board
* Low forward voltage
* Low leakage current
* Polarity: marked on body
* Mounting position: Any

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
25.0 Amperes

GBU



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	GBU25005	GBU2501	GBU2502	GBU2504	GBU2506	GBU2508	GBU2510	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)				25.0				A
.375"(9.5mm) Lead Length at Tc=100 C (With heatsink)				4.2				A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)				350				A
Maximum Forward Voltage Drop per Bridge Element at 3.0A D.C.				1.05				V
Maximum DC Reverse Current Ta=25 C				10				A
at Rated DC Blocking Voltage Ta=125 C				500				A
Typical Junction Capacitance (Note 1)				85				PF
Typical Thermal Resistance R JC (Note 2)				0.6				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 (GBU25005 THRU GBU2510)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

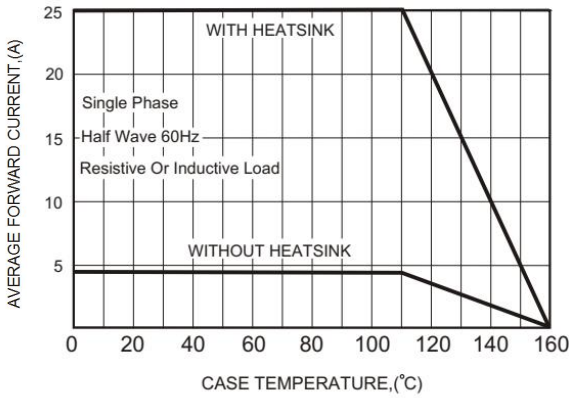


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

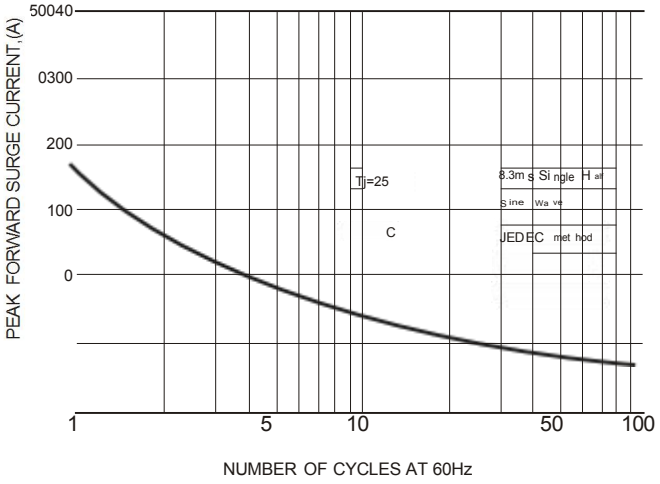


FIG.3-TYPICAL FORWARD CHARACTERISTICS

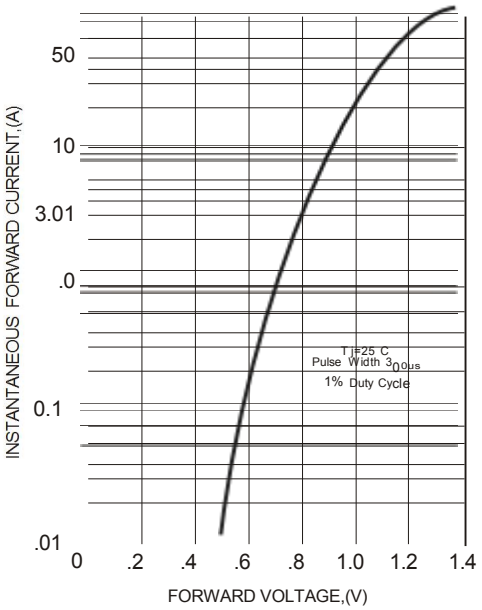


FIG.4-TYPICAL REVERSE CHARACTERISTICS