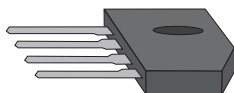




FGBU2504 THRU FGBU2510

SINGLE PHASE 20.0 AMP BRIDGE RECTIFIERS



FEATURES

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

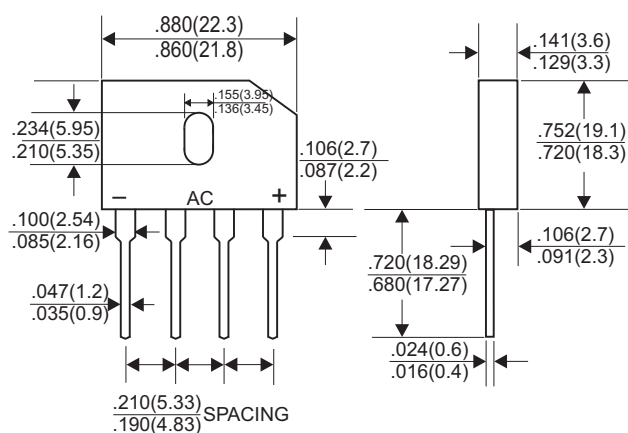
VOLTAGE RANGE

400 to 1000 Volts

CURRENT

25.0 Amperes

GBU



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	FGBU2504	FGBU2506	FGBU2510	UNITS
Maximum Recurrent Peak Reverse Voltage	600	800	1000	V
Maximum RMS Voltage	420	560	700	V
Maximum DC Blocking Voltage	600	800	1000	V
Maximum Average Forward	25.0			A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	300			A
Maximum Forward Voltage Drop per Bridge Element at 12.5A D.C.	1.25			V
Maximum DC Reverse Current Ta=25°C	5			μA
at Rated DC Blocking Voltage Ta=125°C	500			μA
Maximum Reverse Recovery Time (Note 1)	150	200	500	nS
Typical Junction Capacitance (Note 2)	85			PF
Typical Thermal Resistance R _{jc} (Note 3)	2.2			°C/W
Operating Temperature Range, T _J	-55 — +150			°C
Storage Temperature Range, T _{stg}	-55 — +150			°C

NOTES:

1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
3. Thermal Resistance from Junction to Case with device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES (FGBU2504 THRU FGBU2510)

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

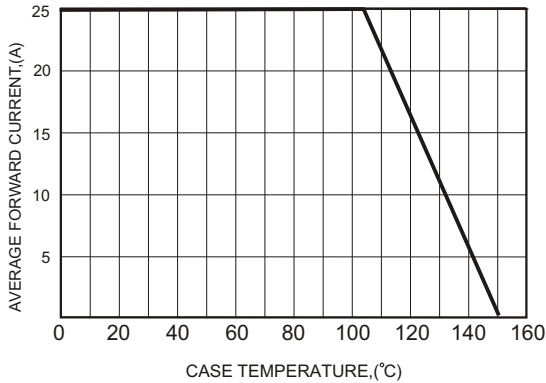


FIG.2-MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

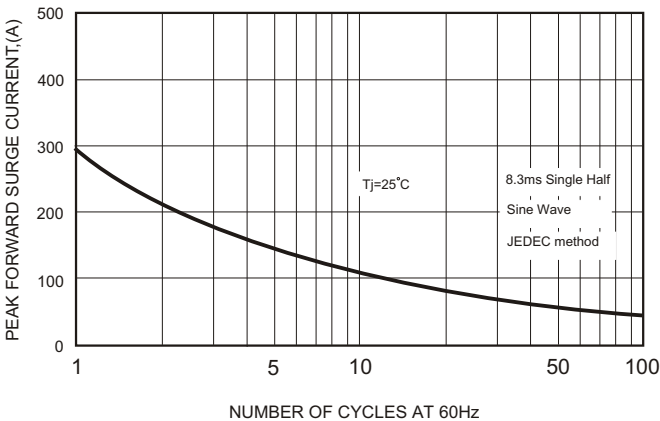


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

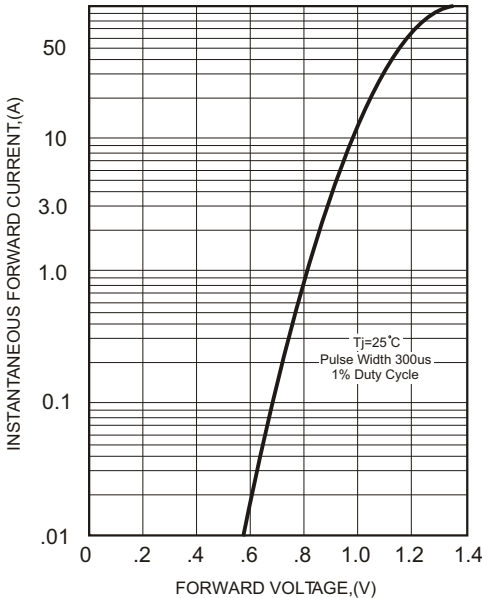


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

