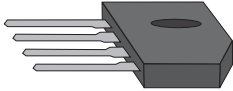




FGBU1004 THRU FGBU1010

SINGLE PHASE 10 AMP BRIDGE RECTIFIERS



FEATURES

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

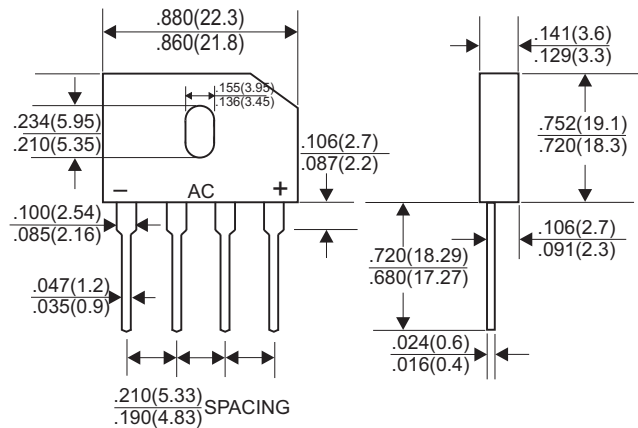
VOLTAGE RANGE

400 to 1000 Volts

CURRENT

10 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	FGBU1004	FGBU1006	FGBU1010	UNITS
Maximum Recurrent Peak Reverse Voltage	400	600	1000	V
Maximum RMS Voltage	280	420	700	V
Maximum DC Blocking Voltage	400	600	1000	V
Maximum Average Forward Rectified Current at Ta=55°C	10.0			A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	200			A
Maximum Instantaneous Forward Voltage at 5.0A	1.3			V
Maximum DC Reverse Current Ta=25°C	5.0			μA
at Rated DC Blocking Voltage Ta=125°C	200			μA
Maximum Reverse Recovery Time (Note 1)	150	250	500	nS
Operating Temperature Range, Tj	-65 — +150			°C
Storage Temperature Range, Tstg	-65 — +150			°C

NOTES:

1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A

RATING AND CHARACTERISTIC CURVES (FGBU1004 THRU FGBU1010)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

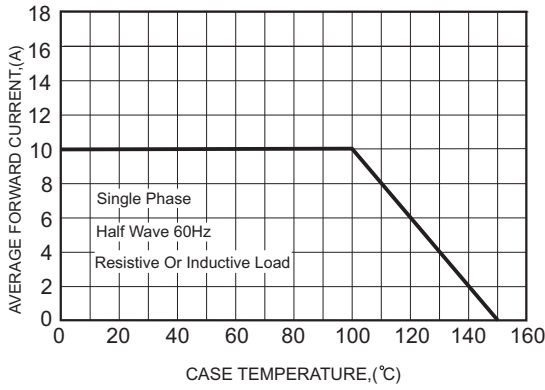


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

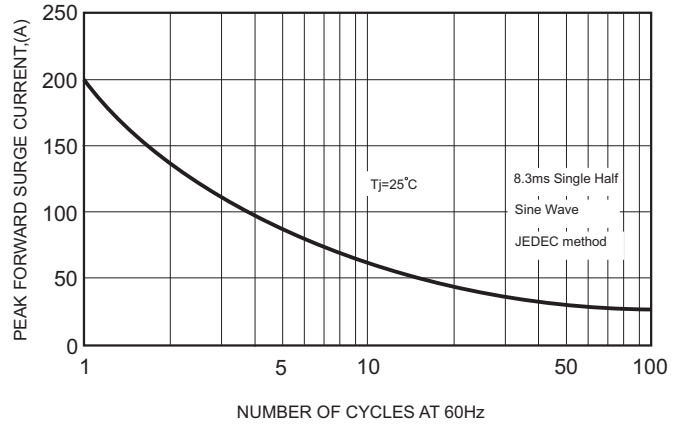


FIG.3-TYPICAL FORWARD CHARACTERISTICS

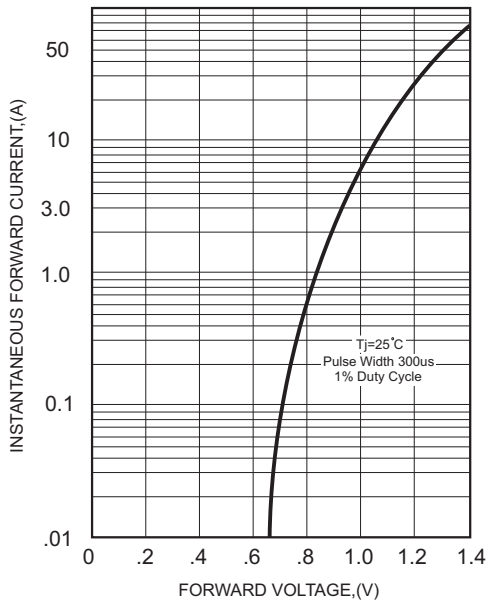


FIG.4-TYPICAL REVERSE CHARACTERISTICS

