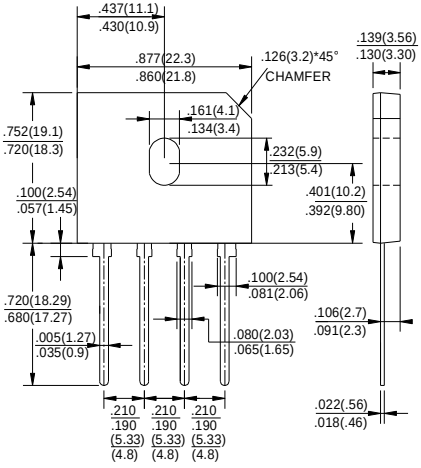
GBU35005 THRU GBU3510

GLASS PASSIVATED BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 35.0 Amperes

GBU



Dimensions in inches and (millimeters)

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop,high current capability
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L flammability classification 94V-0

MECHANICAL DATA

Case: Molded plastic body
Lead:Solder plated
Polarity: As marked

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

CHARACTERISTICS	SYMBOL	GBU 35005	GBU 3501	GBU 3502	GBU 3504	GBU 3506	GBU 3508	GBU 3510	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	30	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 1) Rectified Current @ T_C=100℃ (without heatsink)	$I_{(AV)}$	35.0 5							A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	400							A
Maximum Forward Voltage at 17.5A DC	V_F	1.1							V
Maximum DC Reverse Current @ T_J=25℃ at Rated DC Blocking Voltage @ T_J=125℃	I_R	10.0 500							uA
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

NOTES: 1.Device mounted on 300mm*300mm*1.6mm cu plate heatsink.

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RATINGS AND CHARACTERISTIC CURVES GBU35005 THRU GBU3510

FIG.1-FORWARD CURRENT DERATING CURVE

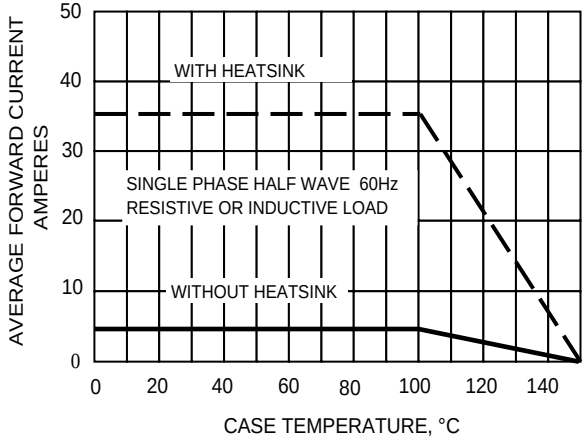


FIG.2-MAXMUN NON-REPETITIVE SURGE CURRENT

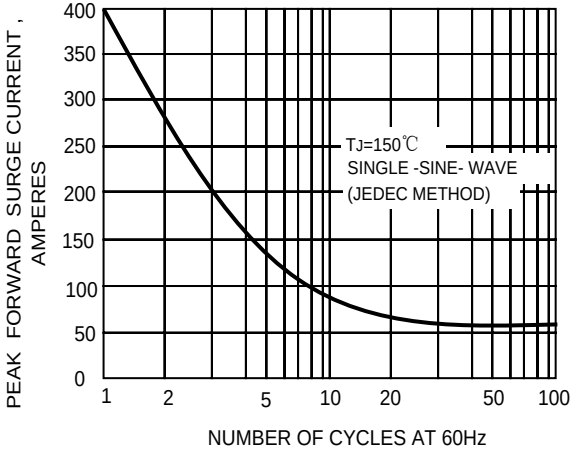


FIG.3-TYPICAL REVERSE CHARACTERISTICS

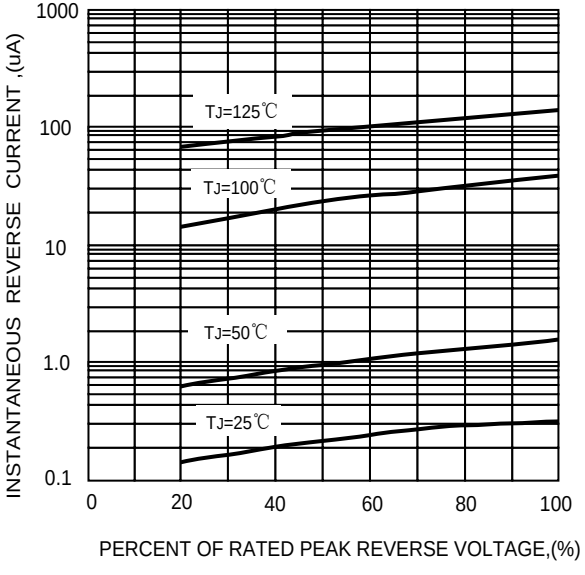
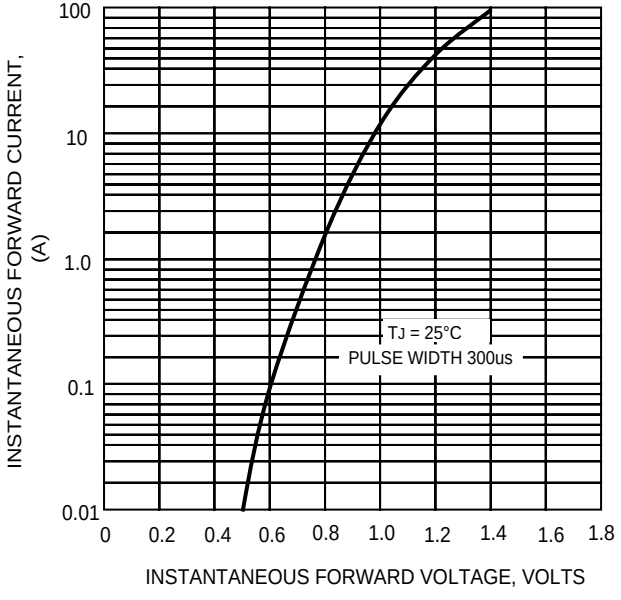


FIG.4-TYPICAL FORWARD CHARACTERISTICS



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