SEMICONDUCTOR

GBU601 THRU GBU610

BRIDGE RECTIFIER

Reverse Voltage: 100 to 1000 Volts
Forward Current: 6. 0 Amps

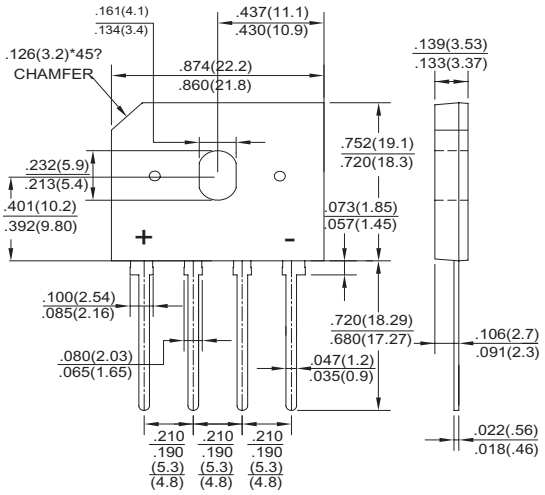
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High current capability
- Low forward voltage drop
  High temperature soldering guaranteed:260°C/10 seconds at terminals
  Component in accordance to RoHS 2011/65/EU

MECHANICAL DATA

- Case: GBU molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750,method 2026
- Mounting Position: Any

GBU



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25°C ambient temperature unless otherwise specified. Single phase ,half wave ,60Hz,resistive or inductive load. For capacitive load,derate current by 20%.)

	Symbols	GBU601	GBU602	GBU604	GBU606	GBU608	GBU610	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	$I_{(AV)}$	6. 0						Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	175						Amps
Rating for fusing (t<8. 3ms)	I^2t	127						A^2s
Maximum Instantaneous Forward Voltage at 3. 0 A DC	V_F	1. 0						Volts
Maximum DC Reverse Current at rated DC blocking voltage, T_A=25°C	I_R	10						μA
Maximum DC Reverse Current at rated DC blocking voltage, T_A=125°C	I_R	500						μA
Typical Junction Capacitance (Note 1)	C_J	50						pF
Typical thermal resistence	$R_{\theta JC}$	2. 2						°C/W
Operating temperature range	T_J	-55 to +150						°C
Storage temperature range	T_{STG}	-55 to +150						°C

NOTE: 1.Measured at 1MHz and applied reverse voltage of 4.0 Volts.

RATINGS AND CHARACTERISTIC CURVES GBU601 THRU GBU610

FLG.1-MAXIMUM FORWARD SUNRGE CURRENT

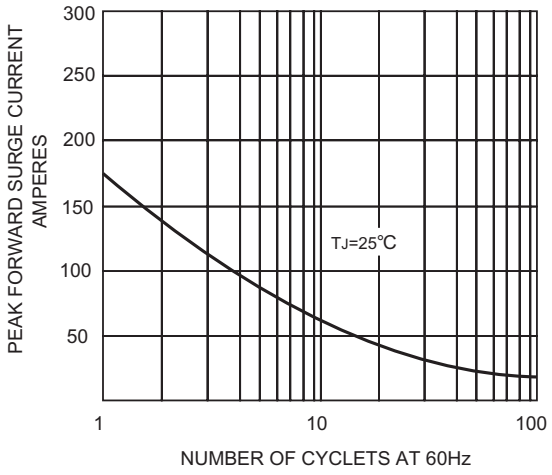


FIG.2-FORWARD CURRENT DERATING CURVE

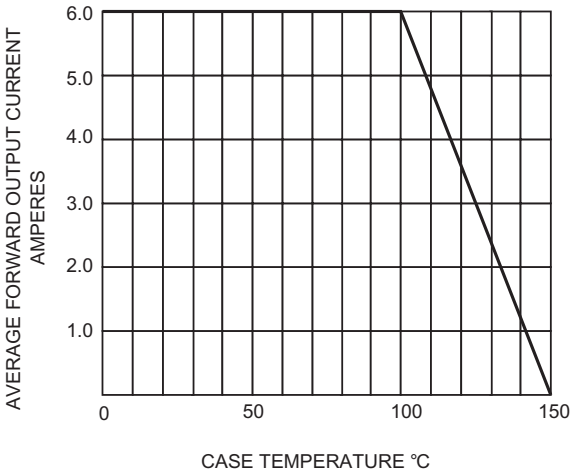


FIG.3-TYPICAL FORWARD CHARACTERISTICS

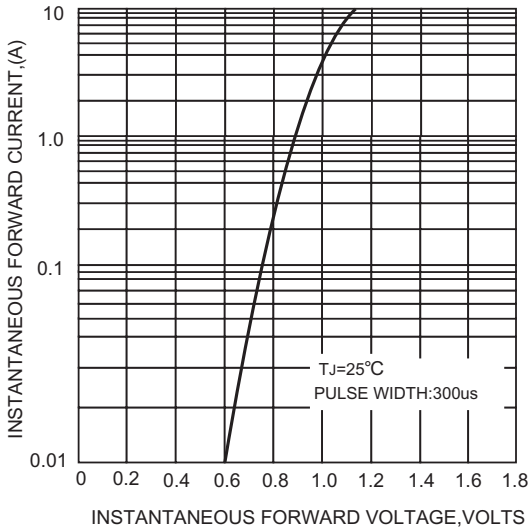


FIG.4 -TYPICAL REVERSE CHARACTERISTICS