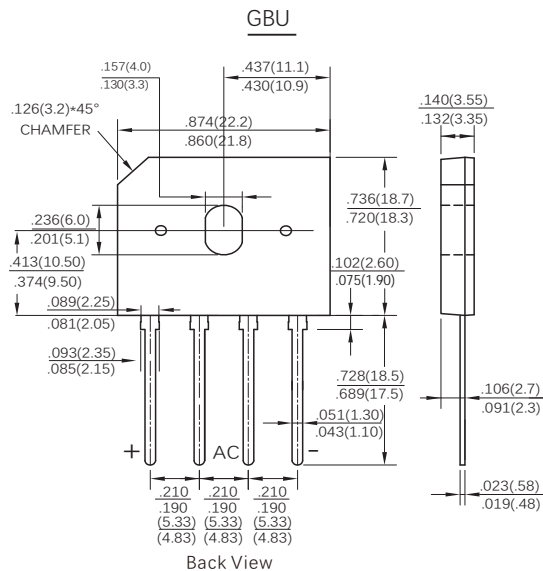


Features

- 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 with RoHS 2015/863/EU

Mechanical Data

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



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%.)

Parameter	Symbols	GBU1016	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1600	Volts
Maximum RMS Voltage	V_{RMS}	1120	Volts
Maximum DC Blocking Voltage	V_{DC}	1600	Volts
Maximum Average Forward Rectified Current	$I_{(AV)}$	10.0	Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150	Amps
Rating for fusing (t<8.3ms)	I^2t	93	A ² s
Maximum Instantaneous Forward Voltage at 5.0A DC	V_F	1.15	Volts
Maximum DC Reverse Current at rated DC blocking voltage	$T_A=25^{\circ}C$	5	μA
	$T_A=125^{\circ}C$	100	
Typical thermal resistance	without heatsink	$R_{\theta JA}$	26
	With heatsink	$R_{\theta JC}$	3.5
	without heatsink	$R_{\theta JL}$	15
Operating and Storage temperature range	T_J T_{STG}	-55 to +150	$^{\circ}C$

FIG.1-DERATING CURVE
OUTPUT RECTIFIED CURRENT

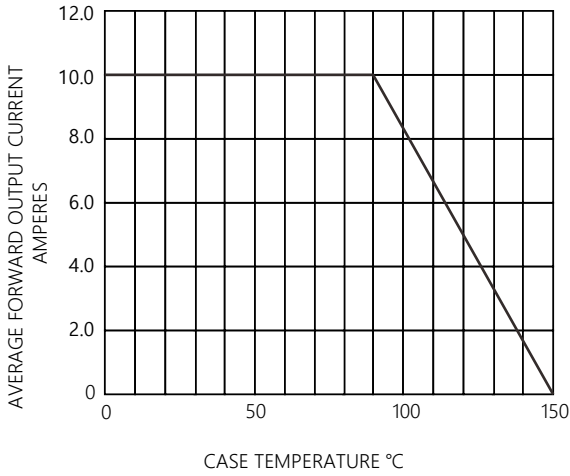


FIG.2-MAXIMUM FORWARD SURGE CURRENT

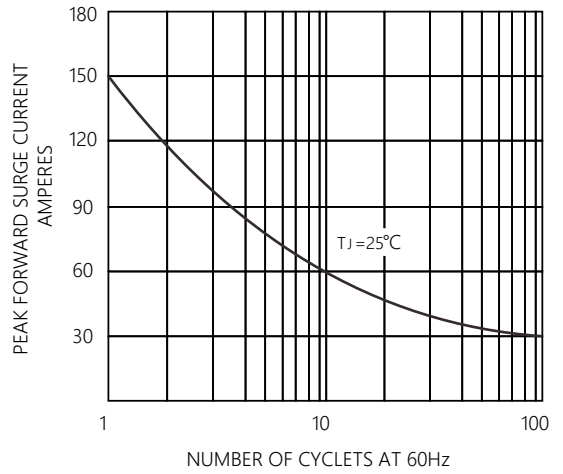


FIG.3-TYPICAL FORWARD CHARACTERISTICS

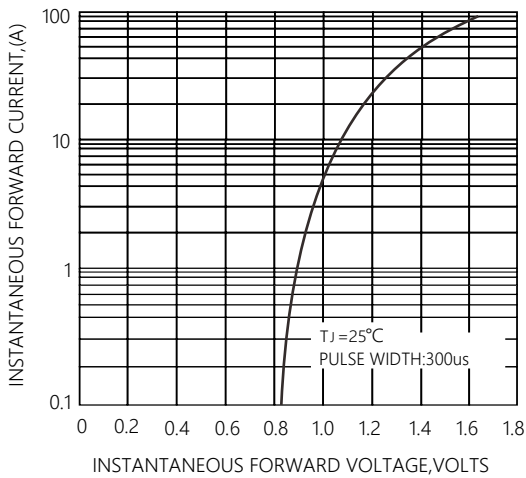
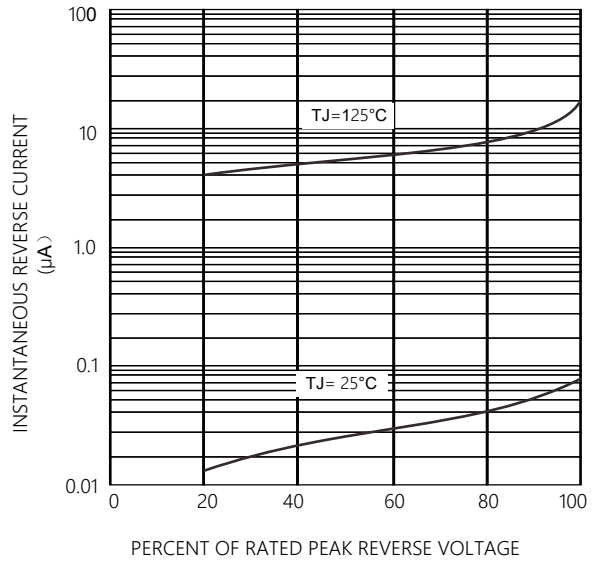


FIG.4 -TYPICAL REVERSE CHARACTERISTICS



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