

CURRENT 8.0 Ampere
VOLTAGE RANG 50 to 1000 Volts

Features

- This series is SGS listed under the Recognized Component Index, file number SZXEC1902259902
 - Ideal for P.C. Board mounting
 - High surge current capability
 - The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
 - High temperature soldering guaranteed 265°C /10 seconds at 5 lbs (2.3kg) tension

Mechanical Data

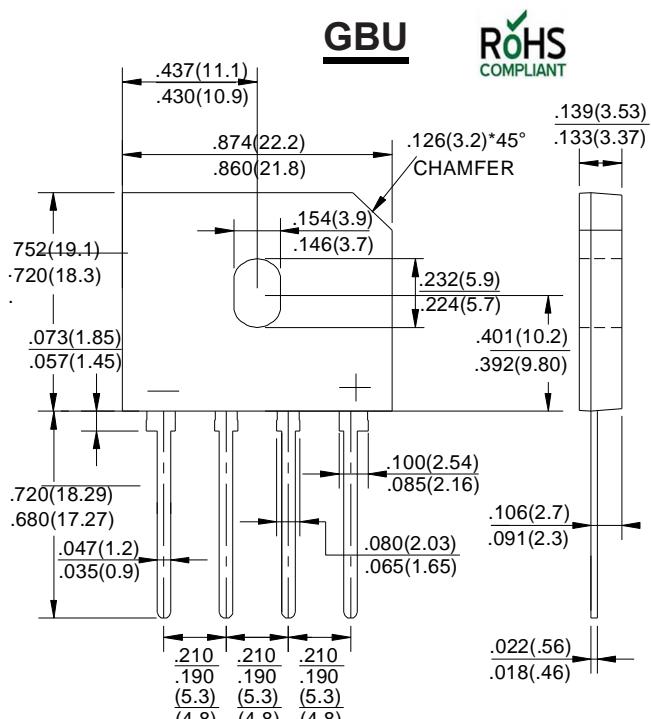
Case: Molded plastic body
Terminals: Plated leads solderable per MIL-STD-202,
Method 208

Polarity: Polarity symbols molded on body

Mounting Position: Any

Mounting Position... Any
Mounting Torque: 5 in-lbs max

Mounting Torque: 3 in-lbs
Weight: 4.0 grams (approx)



Dimensions in inches and (millimeters)

Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.
For Capacitive load derate current by 20%.

Parameter	Symbol	GBU 8005	GBU 801	GBU 802	GBU 804	GBU 806	GBU 808	GBU 810	unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward (with heatsink note1) rectified current at TA=100°C (without heatsink)	IF(AV)				8.0				A
					3.2				
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM				200				A
Rating for fusing (t<8.3ms)	I ² t				166				A ² sec
Typical thermal resistance per element (note 1)	RthJC				2.2				°C / W
Operating junction and storage temperature range	TJ, TSTG				-55 to + 150				°C

Electrical Characteristics

Electrical Characteristics
Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.
For Capacitive load derate by 20 %.

Parameter	Symbol	GBU 8005	GBU 801	GBU 802	GBU 804	GBU 806	GBU 808	GBU 810	Unit
Maximum instantaneous forward voltage drop per leg at 4.0A	VF				1.1				V
Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =125°C	IR				5.0				μA

Notes: (1) Device mounted on 100mm x 100mm x 1.6mm Cu Plate Heatsink.

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GBU8005 THRU GBU810

Rating and Characteristic Curves ($T_A=25^\circ\text{C}$ Unless otherwise noted)

Fig. 1 Derating Curve for Output Rectified Current

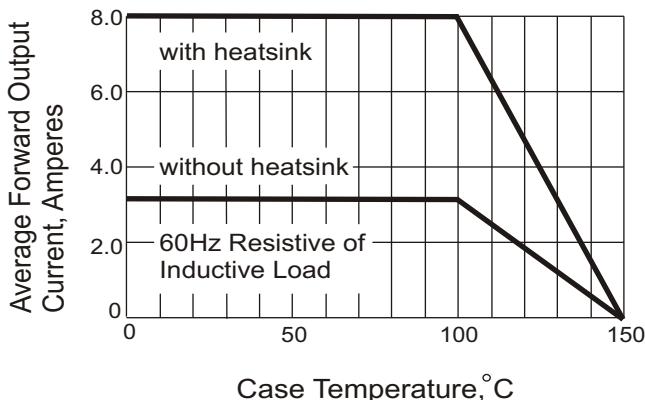


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

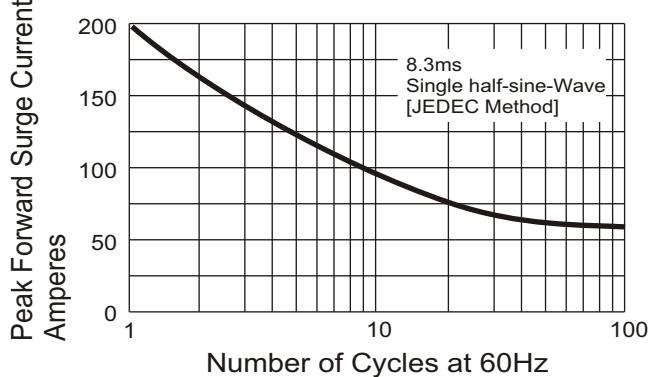


Fig. 3 Typical Instantaneous Forward Characteristics

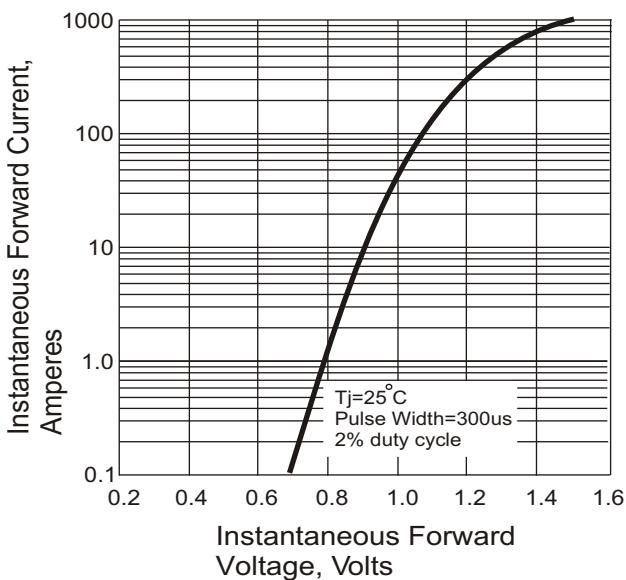


Fig. 4 Typical Revers Characteristics

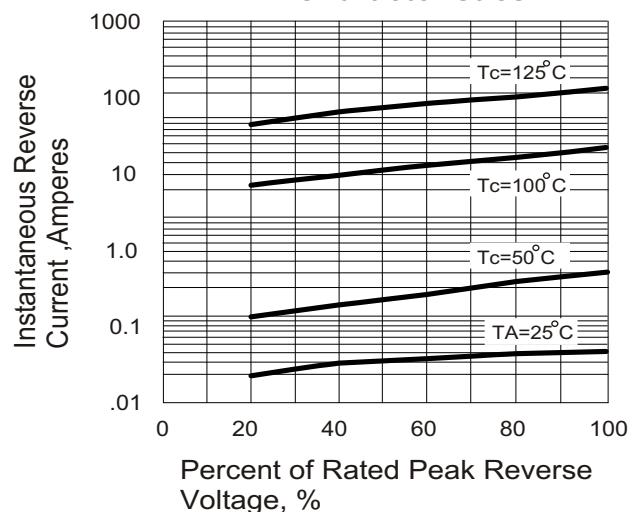


Fig. 5 Typical Junction Capacitance

