Data Sheet

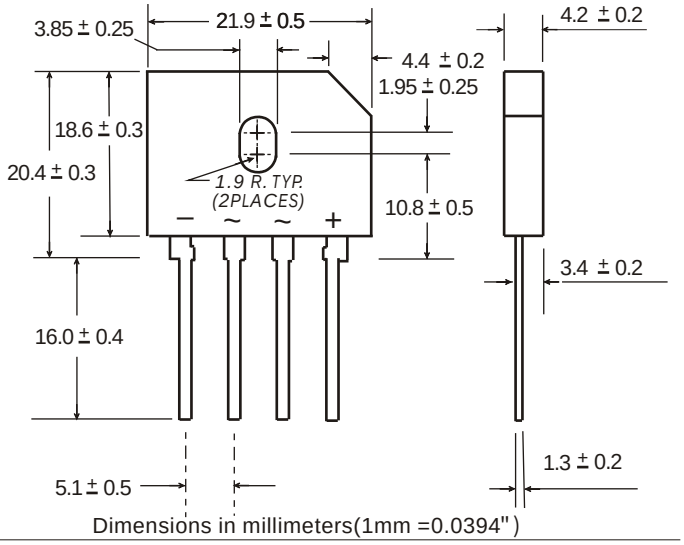
8.0Amps **Glass Passivated** Single Phase Silicon Bridge

GBU800~812

Descriptions

GBU

Machamical Dimensions



Dimensions in millimeters(1mm =0.0394")

Features

- Ideal for P.C. Board mounting
- High surge current capability
- This series is UL listed under the Recognized Component Index, file number E142814
- 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
- Mounting Position:: Any
- Weight: 3.8 grams (approx)

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 800	GBU 801	GBU 802	GBU 804	GBU 806	GBU 808	GBU 810	GBU 812	unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	1200	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	840	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	1200	V
Maximum average forward rectified output current at TA=100°C	IF(AV)	8.0								A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	200								A
Rating for fusing (t<8.3ms)	I^2t	166								A^2sec
Typical thermal resistance per element (1)	ReJA	2.2								°C / W
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150								℃
Max. instantaneous forward voltage drop per leg at 6.0A	VF	1.1								V
Max. DC reverse current at rated Ta=25°C	IR	5.0								uA
Max. DC reverse current at rated Ta=125°C	IR	500								uA

Notes: Thermal resistance from Junction to Ambient on PC board mounting

Rating and Characteristic Curves (TA = 25°C Unless otherwise noted)
GBU800 thru GBU810

Fig. 1 Derating Curve for Output Rectified Current

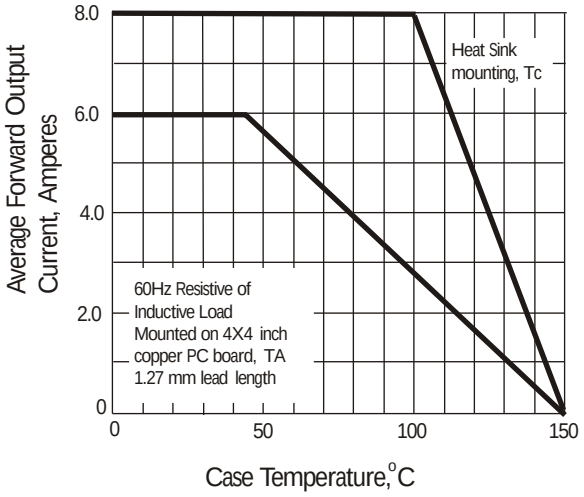


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

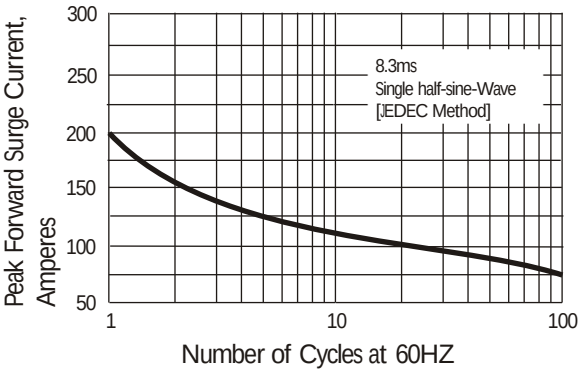


Fig. 3 Typical Instantaneous Forward Characteristics

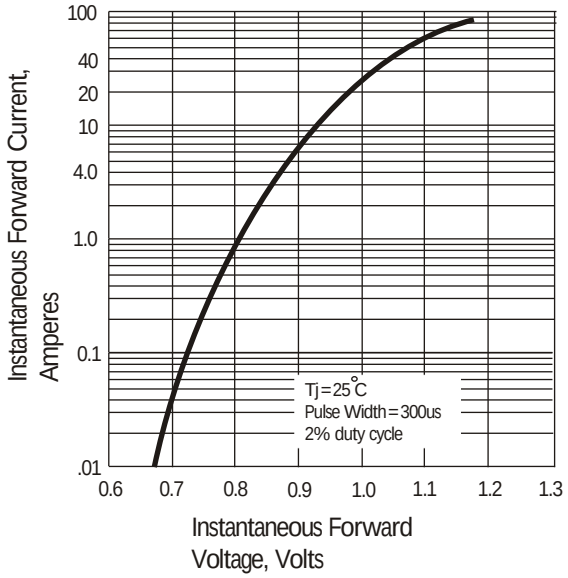


Fig. 4 Typical Reverse Characteristics

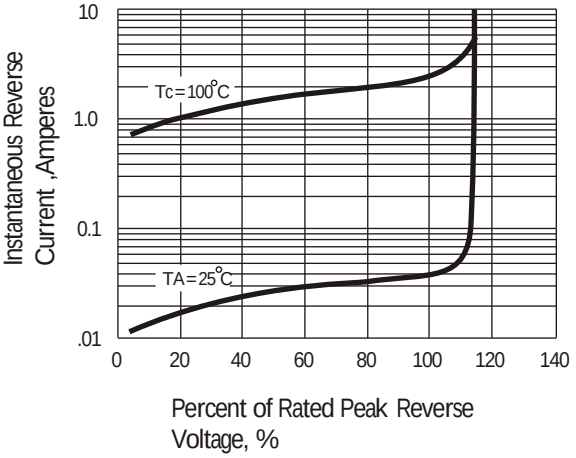


Fig. 5 Typical Junction Capacitance