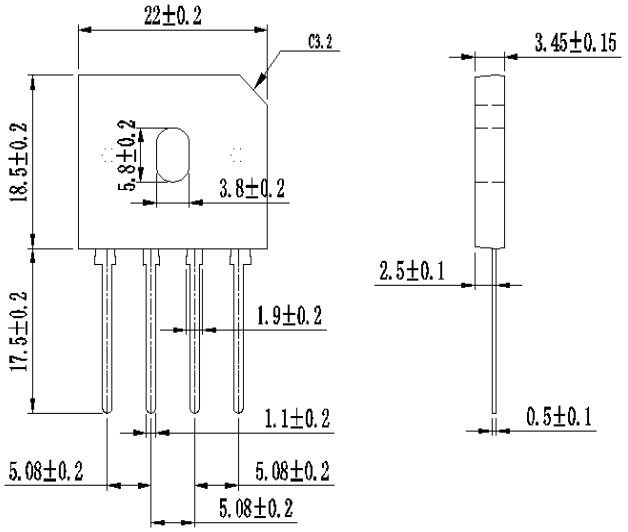
GBU25JL

Single Phase 25.0Amp Glass passivated Bridge Rectifiers

Features

Ideal for printed circuit board mounting
This series is UL listed under the Recognized Component Index, file number E142814
The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
Built-in printed circuit board stand-offs
High case dielectric strength
High temperature soldering guaranteed 260℃/5 seconds at 5 lbs (2.5kg) tension



Dimensions in inches and (milimeters)

Mechanical Data

Case: Reliable low cost construction utilizing molded plastic technique
Terminals: Plated leads solderable per MIL-STD-202, Method 208
Mounting Position: Any

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**	GBU25JL	**unit**
Maximum repetitive peak reverse voltage	V_{RRM}	600	V
Maximum RMS bridge input voltage	V_{RMS}	420	V
Maximum DC blocking voltage	V_{DC}	600	V
Maximum average forward rectified output current at T_C=100°C (with heatsink)	$I_{F(AV)}$	25.0	A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	350	A
Rating for fusing (t<8.3ms)	I^2t	395	A^2sec
Operating junction and storage temperature range	T_J, T_{STG}	-55 to + 150	℃

Electrical Characteristics

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

Parameter	**Symbol**	GBU25JL	**Unit**
Maximum instantaneous forward voltage drop per leg at 12.5A	V_F	0.92	V
Maximum DC reverse current at rated TA =25°C **DC blocking voltage per element TA =125°C**	I_R	10 500	μA

Notes: (1)Thermal resistance from Junction to Ambemt on P.C.board mounting.

Rating and Characteristic Curves

Fig. 1 Derating Curve for Output Rectified Current

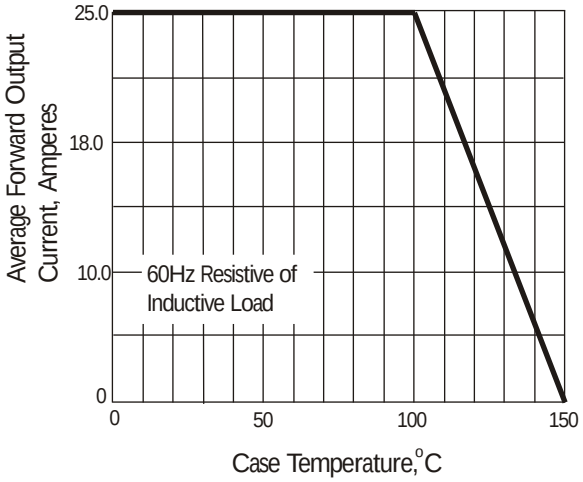


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

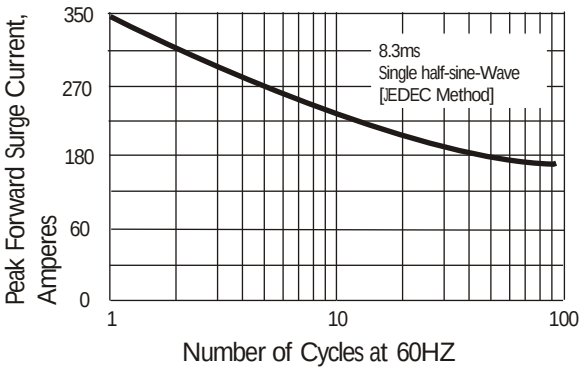


Fig. 3 Typical Instantaneous Forward Characteristics

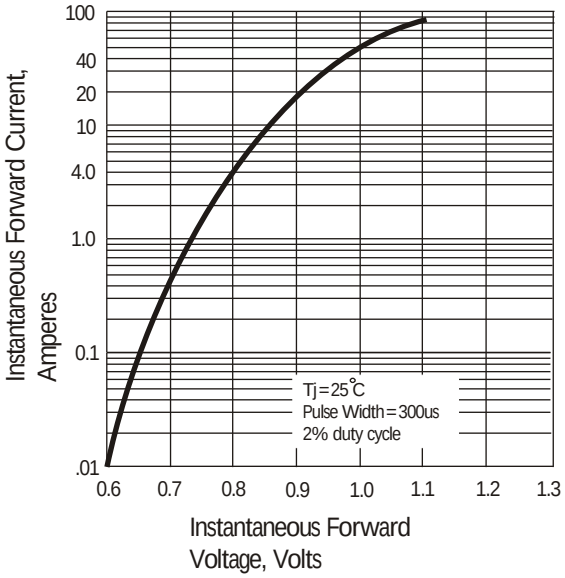


Fig. 4 Typical Reverse Characteristics

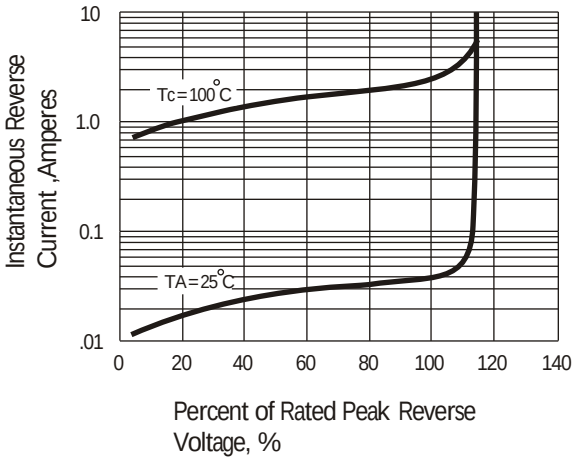


Fig. 5 Typical Junction Capacitance