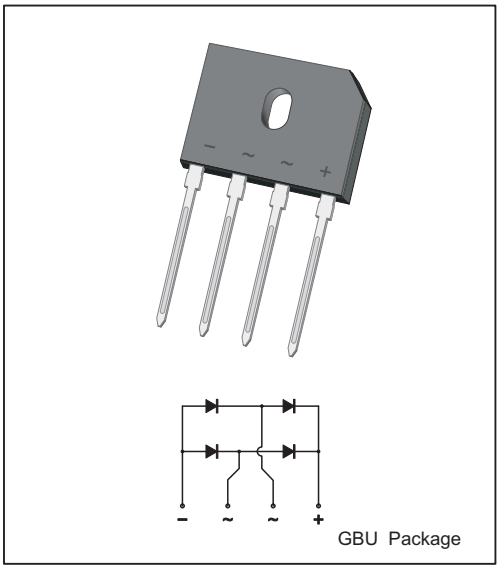
10A Plug-in GLASS PASSIVATED BRIDGE RECTIFIER

FEATURES:
- Glass Passivated Chip
- Reverse Voltage - 400 to 600 V
- Forward Current - 10 A
- High Surge Forward Current Capability
- Component in accordance to ROHS 2002/95/EC

MECHANICAL DATA
- Package: GBU
- Epoxy meets UL 94V-0 flammability rating
- Terminals: Pure tin plated leads, solderable per J-STD-002 and JESD22-B102, E3 suffix for consumer grade, meet JESD201 class 1A whisker test.
- Polarity: As marked on body
- Approx Weight: 3.8g (0.134oz)



Maximum Ratings and Electrical characteristics
Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	EGBU1004G	EGBU1006G	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	400	600	V
Maximum RMS voltage	V_{RMS}	280	420	V
Maximum DC Blocking Voltage	V_{DC}	400	600	V
Average Rectified Output Current With heat sink T_c=100°C	I_O	10		A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	200		A
Maximum Forward Voltage at 5.0 A	V_F	1.3	1.7	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_a=25 °C T_a=125 °C	I_R	10 500		μA
Typical Junction Capacitance (f=1MHz,V_R=4V)	C_j	80		pF
Typical Thermal Resistance (Note1)	$R_{\theta JA}$ $R_{\theta JC}$	20 4.8		°C/W
Maximum Reverse Recovery Time (Note2)	trr	35		nS
Operating and Storage Temperature Range	T_j, T_{stg}	-40 ~ +150		°C

Note: 1. Mounted on glass epoxy PC board with 4×2.54×50.8mm copper pad and With heat sink.
Note: 2. Measured with I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A.

Typical characteristic curve

Fig.1 Average Rectified Output Current Derating Curve

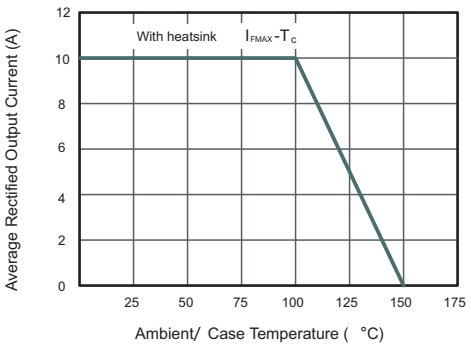


Fig.2 Typical Reverse Characteristics

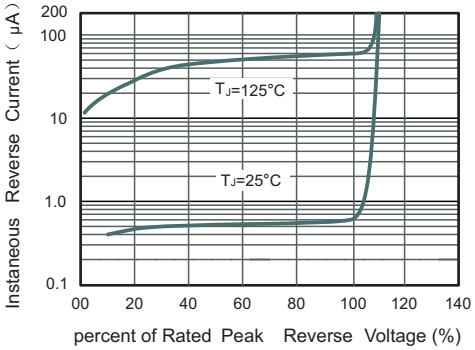


Fig.3 Typical Instaneous Forward Characteristics

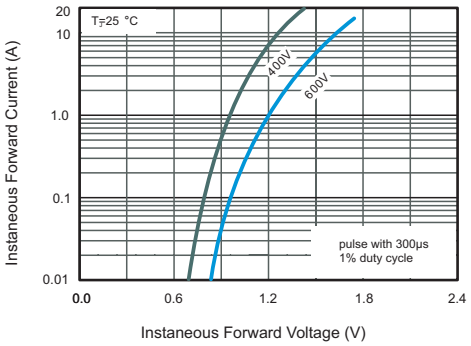
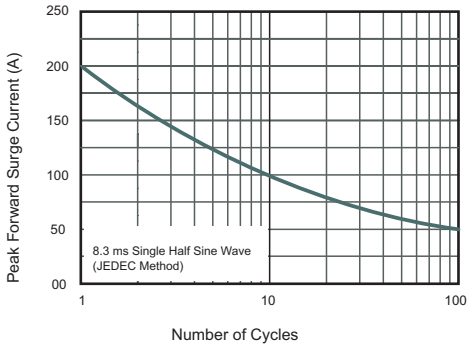


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

GBU Package