

GBU15A THRU GBU15M

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 50 to 1000V

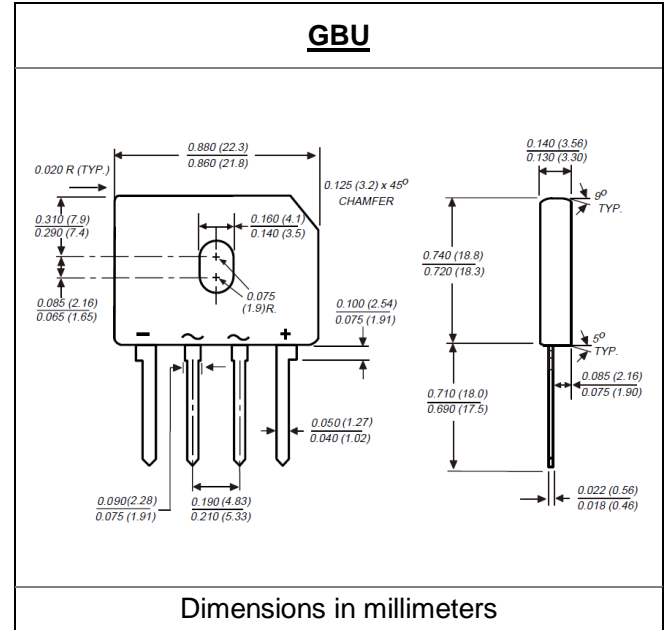
Current: 15.0A

Features

Ideal for printed circuit board
Glass passivated chip junction
High case dielectric strength
High surge overload rating
This series is UL listed under Recognized Component Index, file number E330278

Mechanical Data

Terminal: Plated leads solderable per J-STD-002
Case: UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: Polarity symbol marked on body



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	Symbol	GBU 15A	GBU 15B	GBU 15D	GBU 15G	GBU 15J	GBU 15K	GBU 15M	units
Maximum repetitive peak reverse voltage	V _{rrm}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{rms}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{dc}	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at T _c = 100°C (Note 1)	I _{f(av)}	15.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I _{fsm}	280							A
Maximum instantaneous forward voltage drop per leg at 7.5A	V _f	1.1							V
Rating for fusing (t < 8.3ms)	I ² t	320							A ² Sec
Maximum DC reverse current at rated DC blocking voltage per leg	I _r	10.0 500							μA
Maximum thermal resistance per leg (Note1)	R _{th(jc)}	2.0							°C/W
Operating junction and storage temperature range	T _j , T _{stg}	-55 to +150							°C

Note:

1. with heatsink

RATINGS AND CHARACTERISTIC CURVES GBU15A THRU GBU15M

Fig. 1 – Derating Curve Output Rectified Current

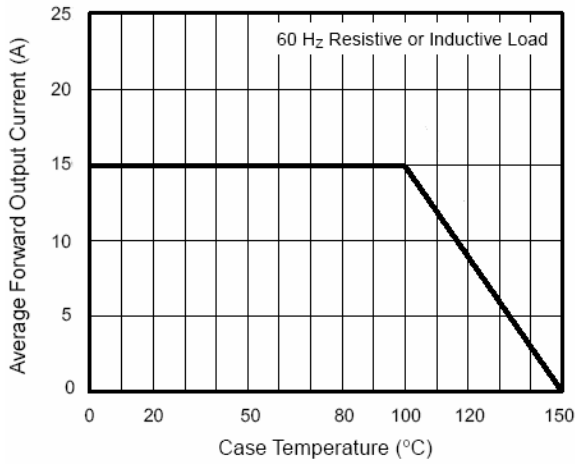


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current Per Leg

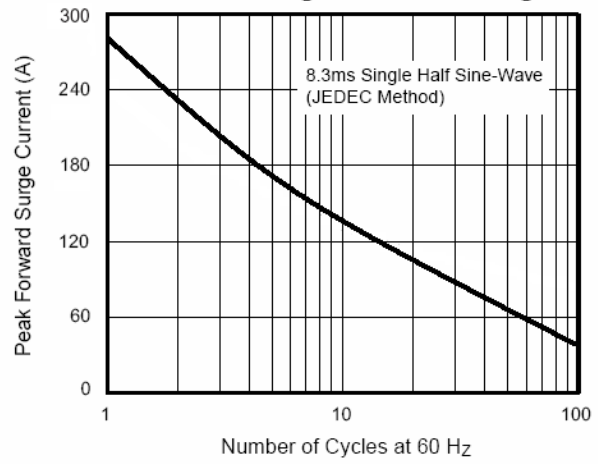


Fig. 3 – Typical Forward Characteristics Per Leg

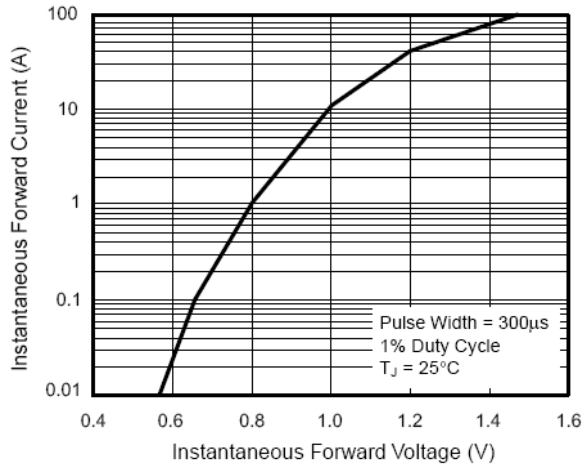


Fig. 4 – Typical Reverse Characteristics Per Leg

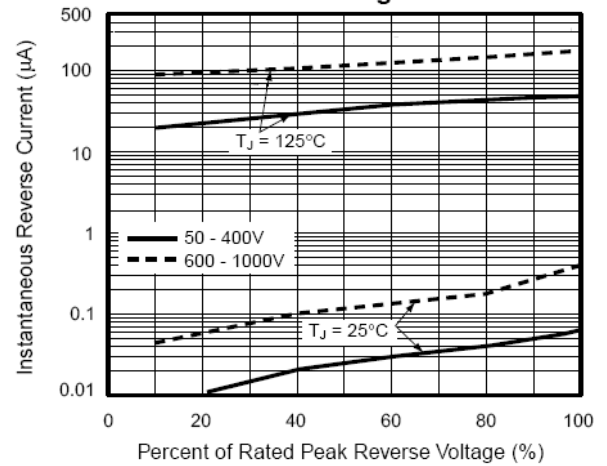


Fig. 5 – Typical Junction Capacitance Per Leg

