

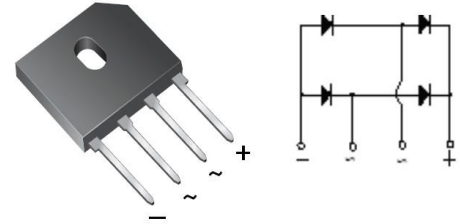


SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER GBU4A ~ GBU4M

Single Phase Glass Passivated Bridge Rectifier

Features

- UL recognized under component index, file Number E54124
- High forward surge capability
- Glass passivated chip junction
- High case dielectric strength
- High temperature soldering guaranteed:
260°C/10 seconds



Case Style GBU

Mechanical Data

Case:	Transfer molded plastic
Polarity	Polarity symbols marked on case
Terminals:	Lead solderable per MIL-STD-750 method 2026
Mounting torque	/
Mounting position:	Thru hole for #6 screw, 5-in-lbs torque max (Note 3)
Weight:	0.15 ounce, 4.0 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

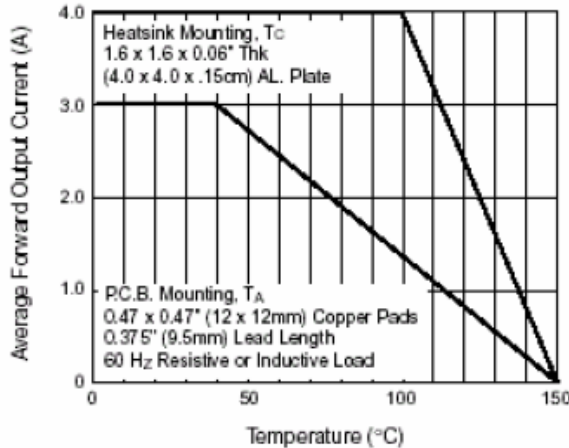
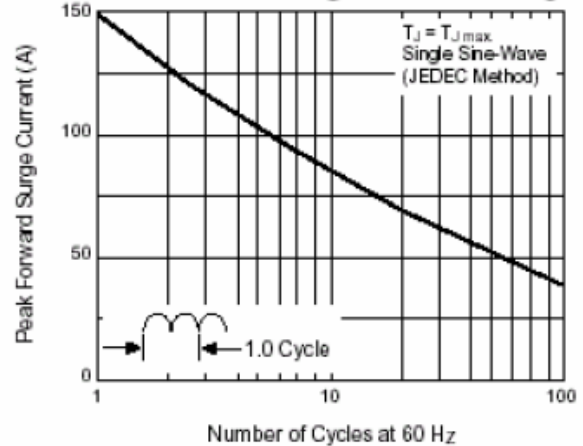
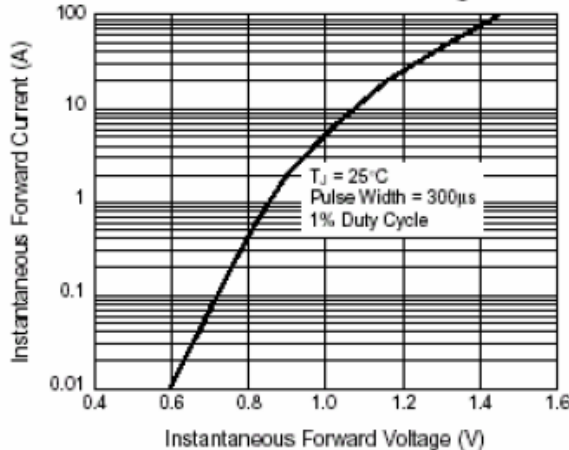
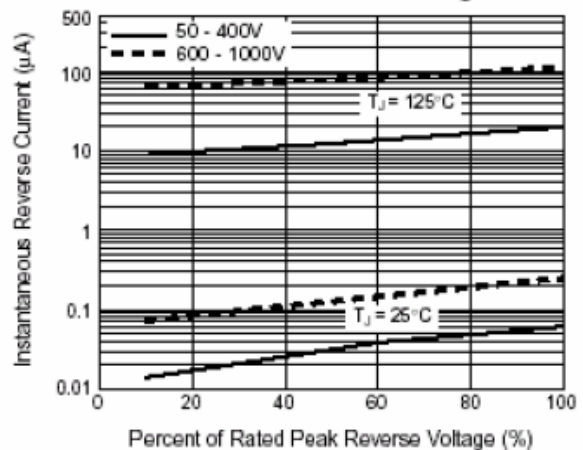
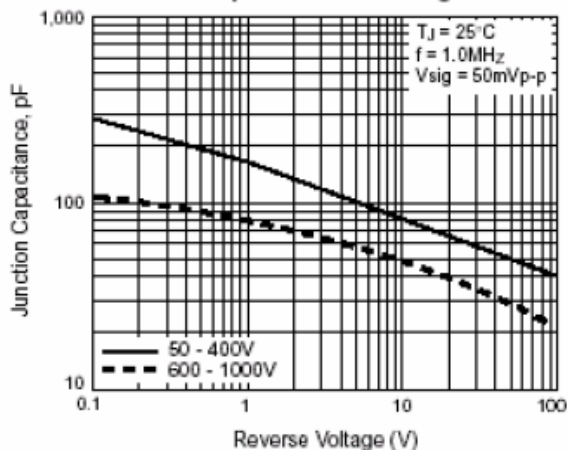
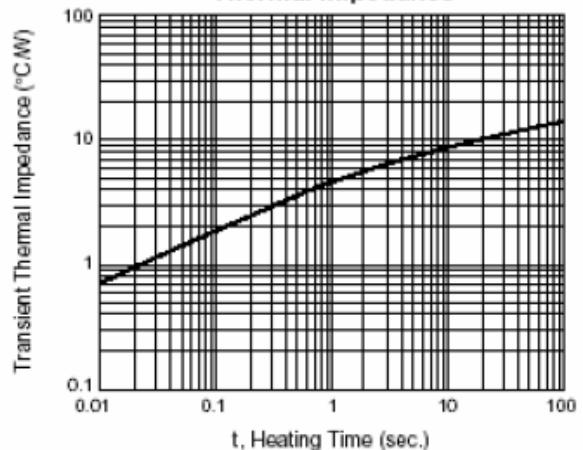
Symbol	Description	GBU4A	GBU4B	GBU4D	GBU4G	GBU4J	GBU4K	GBU4M	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Max RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Max DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I(AV)	Max Average Forward Rectified Current	4.0/3.0							A	@Tc=100°C (Note 1) @ Tc=40°C (Note 2)
IFSM	Peak Forward Surge Current	150							A	8.3ms single half sine-wave (JEDEC method)
TJ,TSTG	Operating and Storage Temperature Range	-55 to +150							°C	
I2t	Rating for Fusing	93							A2s	T<8.3mS

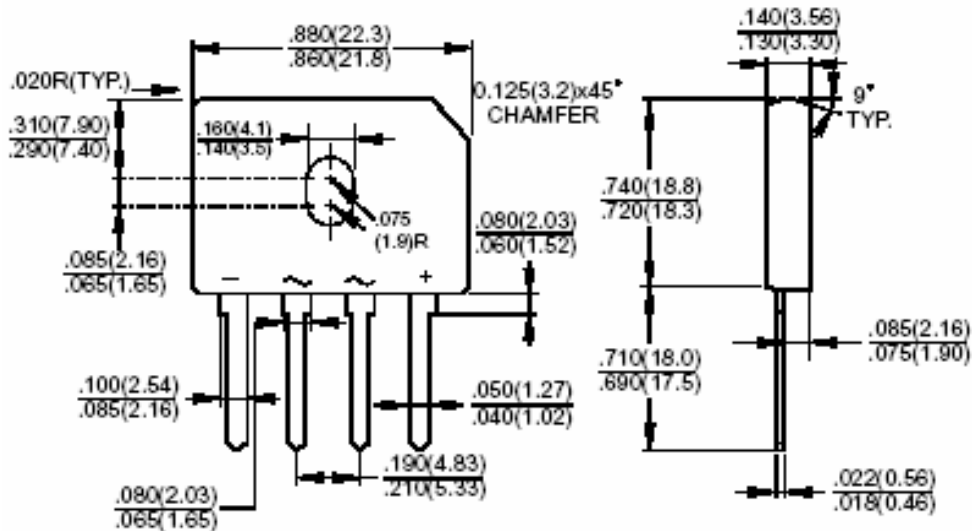
Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	GBU4A	GBU4B	GBU4D	GBU4G	GBU4J	GBU4K	GBU4M	Unit	Conditions
VF	Max Instantaneous Forward Voltage	1.0							V	Drop per Bridge element 4.0A
IR	Max DC Reverse Current at Rated DC Blocking Voltage	5.0							µA	TA=25°C
		0.5								Tc=125°C
VISO	Isolation Voltage from case to lugs	2500							V	
Rθ-JC	Typical Thermal Resistance per leg	2.0							°C/W	
CJ	Typical Junction capacitance per leg	100			45				pF	Measured at 1.0MHz/4.0V

Note:

1. Unit mounted on 1.6" x 1.6" x 0.06" (4cm x 4cm x 0.15cm) AL plate
2. Unit mounted on PCB with 0.5" x 0.5" (12mm x 12mm) copper pads and 0.375 (9.5mm) lead length
3. Recommended mounting position is to bolt down on heatsink using #6 screw and silicon thermal compound for maximum heat transfer

GBU4A ~ GBU4M
RATINGS AND CHARACTERISTIC CURVES GBU4A THRU GBU4M
**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 Leakage
Characteristics Per Leg**

**Fig. 5 — Typical Junction
Capacitance Per Leg**

**Fig. 6 — Typical Transient
Thermal Impedance**


GBU4A ~ GBU4M
Dimensions in inches (mm)

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