

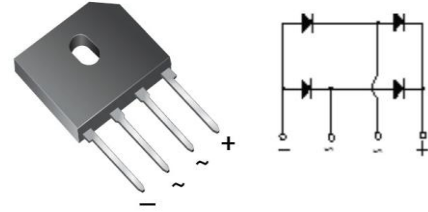


SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER GBU6A ~ GBU6M

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 2)
Weight:	0.15 ounce, 4.0 gram

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

Symbol	Description	GBU6A	GBU6B	GBU6D	GBU6G	GBU6J	GBU6K	GBU6M	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	6.0							A	@Tc=100°C (Note 2 & 3)
IFSM	Peak Forward Surge Current	175							A	8.3ms single half sine-wave (JEDEC method)
TJ,TSTG	Operating and Storage Temperature Range	-55 to +150							°C	
I2t	Rating for Fusing	127							A2s	T<8.3mS

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

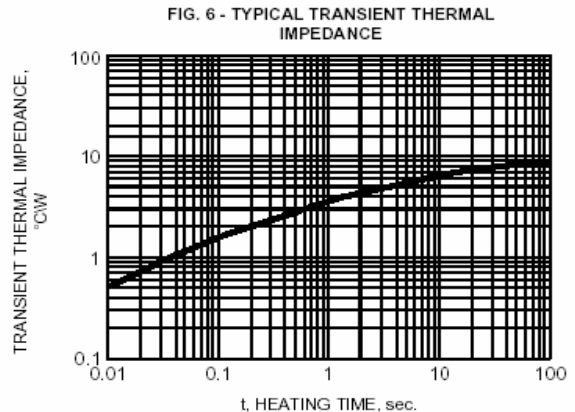
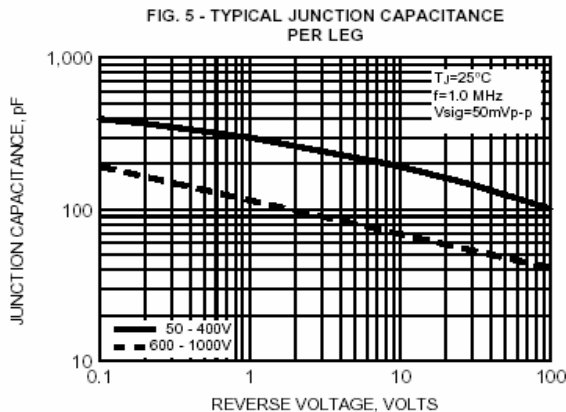
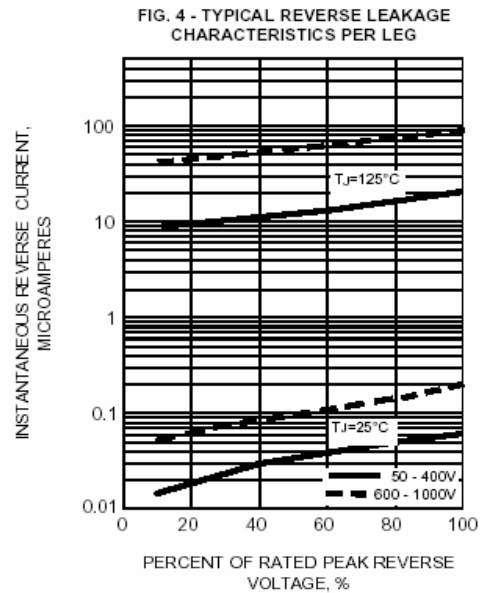
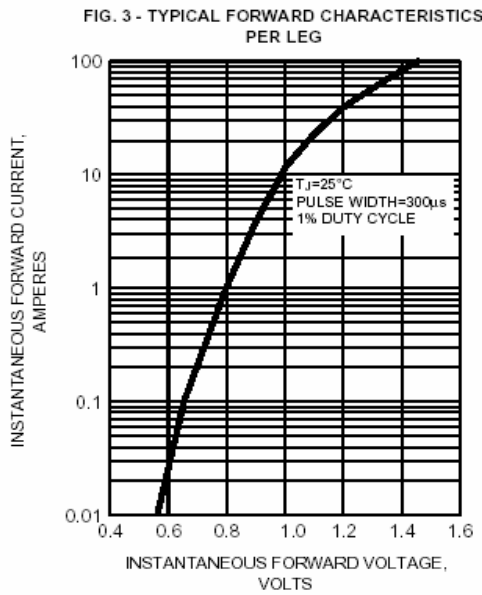
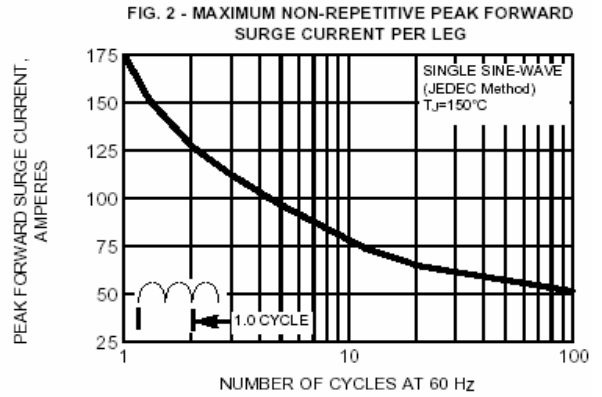
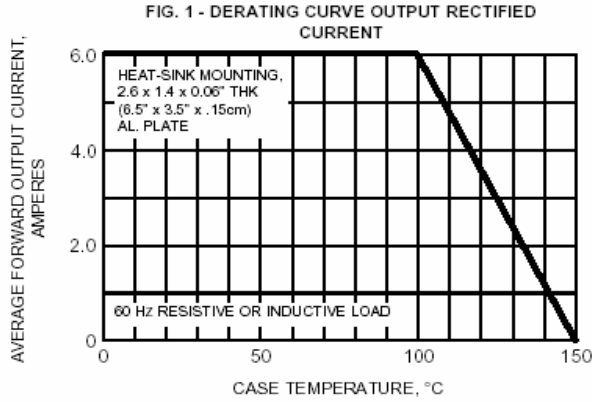
Symbol	Description	GBU6A	GBU6B	GBU6D	GBU6G	GBU6J	GBU6K	GBU6M	Unit	Conditions
V _F	Max Instantaneous Forward Voltage	1.0							V	Drop per Bridge element 6.0A
IR	Max DC Reverse Current at Rated DC Blocking Voltage	5.0							µA	TA=25°C
		0.5								Tc=125°C
Rθ-Ja	Typical Thermal Resistance per leg	7.4							°C/W	Note 2
Rθ-JC		2.2							°C/W	Note 3
C _J	Typical Junction capacitance per leg	211				94			pF	Measured at 1.0MHz/4.0V

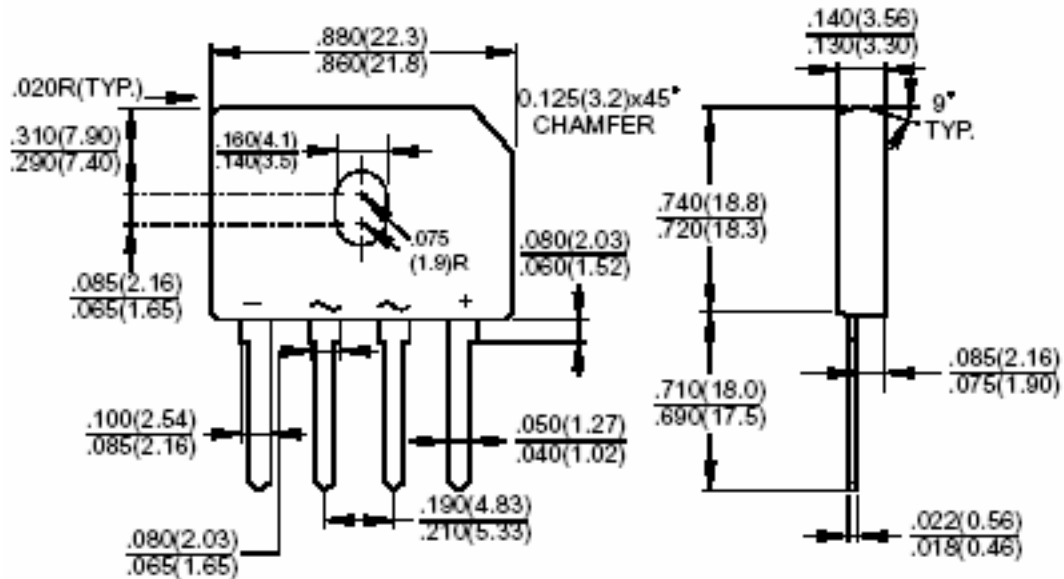
Note:

1. Unit mounted on 2.6" x 1.4" x 0.11" (6.5cm x 3.5cm x 0.15cm) AL plate
2. Recommended mounting position is to bolt down on heat-sink using #6 screw and silicon thermal compound for maximum heat transfer

GBU6A ~ GBU6M

RATINGS AND CHARACTERISTIC CURVES GBU6A THRU GBU6M



GBU6A ~ GBU6M
Dimensions in inches (mm)

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