GBU4A - GBU4M

Bridge Rectifiers

Features

- Glass-Passivated Junction
- Surge Overload Rating: 150 A Peak
- Reliable Low-Cost Construction Utilizing Molded Plastic Technique
- Ideal for Printed Circuit Board
- UL Certified: UL #E258596

PACKAGE MARKING AND ORDERING INFORMATION

Part Number	Marking	Package	Packing Method
GBU4A	GBU4A	GBU 4L	Rail
GBU4B	GBU4B		
GBU4D	GBU4D		
GBU4G	GBU4G		
GBU4J	GBU4J		
GBU4K	GBU4K		
GBU4M	GBU4M		



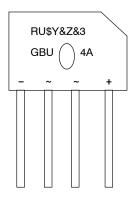
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SIP4 CASE 127EL

MARKING DIAGRAM



RU = UL Marking

\$Y = ON Semiconductor Logo &Z = Assembly Plant Code &3 = Numeric Date Code GBU4A = Specific Device Code

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ABSOLUTE MAXIMUM RATINGS (T_A = 25°C unless otherwise noted) (Note 1)

			Value							
Symbol	Parameter		4A	4B	4D	4G	4J	4K	4M	Units
V _{RRM}	Maximum Repetitive Reverse Voltage		50	100	200	400	600	800	1000	V
V _{RMS}	Maximum RMS Bridge Input Voltage		35	70	140	280	420	560	700	V
V _R	DC Reverse Voltage (Rated V _R)		50	100	200	400	600	800	1000	V
I _{F(AV)}	Average Rectified Forward	T _A = 100°C	4.0					Α		
	Current	T _A = 40°C	3.0						Α	
I _{FSM}	Non-Repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave		150						Α	
T _{STG}	Storage Temperature Range		-55 to +150					°C		
TJ	Operating Junction Temperature		-55 to +150				°C			

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

THERMAL CHARECTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Value	Units
P_{D}	Power Dissipation	8	W
$R_{ hetaJA}$	Thermal Resistance per Leg, Junction to Ambient (Note 2)	19	°C/W

^{2.} Device mounted on PCB with 0.5 \times 0.5 inch (12 \times 12 mm)

ELECTRICAL CHARACTERISTICS (T_J = 25°C unless otherwise noted)

Symbol	Parameter	Value	Units	
V _F	Forward Voltage, per Element at 4.0 A		1.0	V
I _R	Reverse Current, per Element at Rated V _R	T _A = 25°C	5.0	μΑ
		T _A = 125°C	500	μΑ
l ² t	I ² t Rating for Fusing	-	93	A ² s

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

^{1.} These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

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TYPICAL PERFORMANCE CHARACTERISTICS

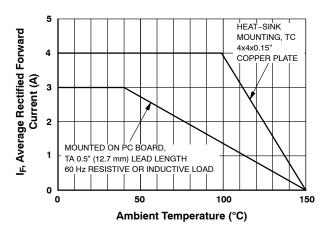


Figure 1. Forward Current Derating Curve

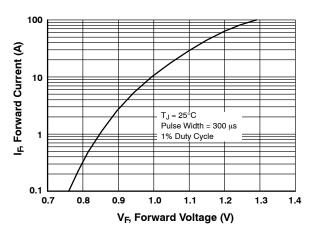


Figure 2. Forward Voltage Characteristics

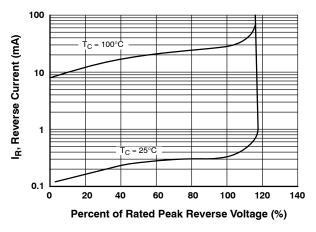


Figure 3. Reverse Current vs. Reverse Voltage

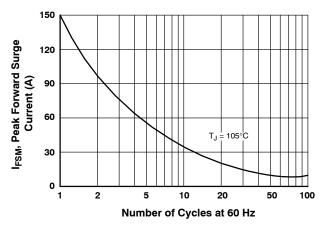
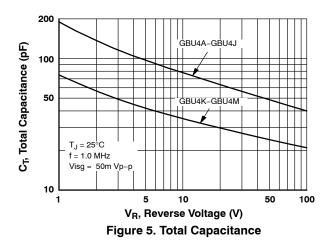


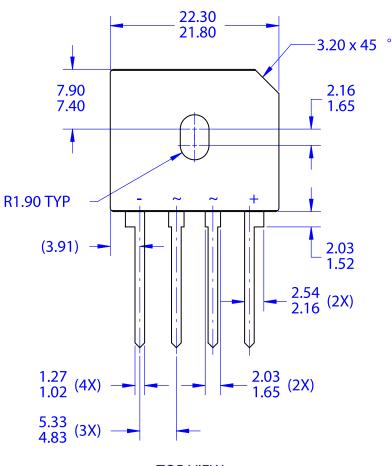
Figure 4. Non-Repetitive Surge Current

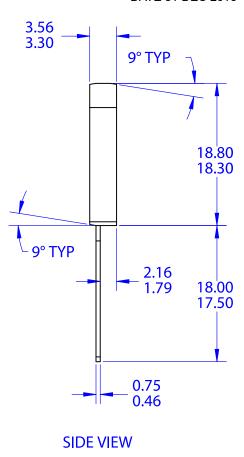


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DATE 31 DEC 2016





TOP VIEW

NOTES:

- A. NO INDUSTRY STANDARD APPLIES TO THIS PACKAGE
- **B. ALL DIMENSIONS ARE IN MILLIMETERS**
- C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH AND TIE BAR PROTRUSIONS.
- D. DIMENSIONS AND TOLERANCES AS PER ASME Y14.5-2009

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