

GBU4J thru GBU4M

Single Phase Glass Passivated Silicon Bridge Rectifier

 $V_{RRM} = 600 \text{ V} -1000 \text{ V}$ $I_{O} = 4 \text{ A}$

Features

 Plastic package has Underwriters Laboratory Flammability Classification 94V-0

- High case dielectric strength of 1500 V_{RMS}
- · Glass passivated chip junction
- · Ideal for printed circuit boards
- · High surge overload rating
- High temperature soldering guaranteed: 260°C/ 10 seconds, 0.375 (9.5mm) lead length
- · Not ESD Sensitive

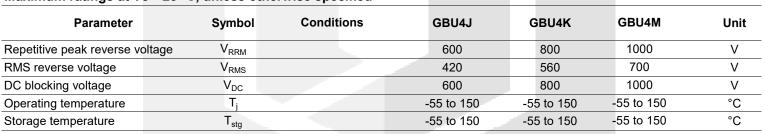


Case: Molded plastic body over passivated junctions

Terminals: Plated leads, solderable per MIL-STD-750 Method 2026.

Mounting position: Any

Maximum ratings at Tc = 25 °C, unless otherwise specified



Electrical characteristics at Tc = 25 °C, unless otherwise specified

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load derate current by 20%.

Parameter	Symbol	Conditions	GBU4J	GBU4K	GBU4M	Unit
Maximum average forward rectified current ^{1,2}	I _O	T _c = 100 °C	4.0	4.0	4.0	А
Peak forward surge current	I _{FSM}	t _p = 8.3 ms, half sine	150	150	150	А
Maximum instantaneous forward voltage drop per leg	V _F	I _F = 4 A	1.1	1.1	1.1	V
Maximum DC reverse current at rated DC blocking voltage per leg	I _R	T _a = 25 °C T _a = 125 °C	5 500	5 500	5 500	μΑ
Rating for fusing	l ² t	t < 8.3 ms	93	93	93	A ² sec
Typical junction capacitance per leg ³	C_{j}		45	45	45	pF
Typical thermal resistance per leg ^{1,2}	$R_{\Theta JA}$		22	22	22	
	$R_{\Theta JL}$		4.2	4.2	4.2	°C/W

¹ - Device mounted on 40 mm x 40 mm x 1.5 mm Al plate heatsink







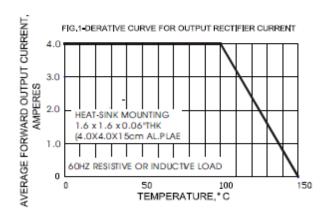


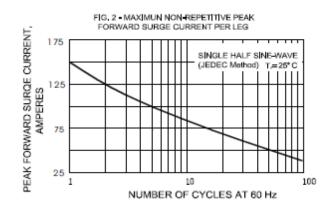
² - Recommended mounted position is to bolt down device on a heatsink with silicon thermal compond for maximum heat transfer using #6 screw.

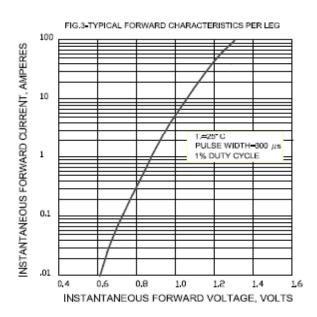
³ - Measured at 1.0 MHz and applied reverse bias of 4.0 V

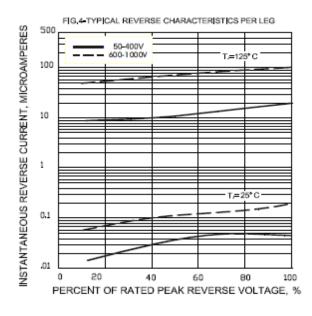
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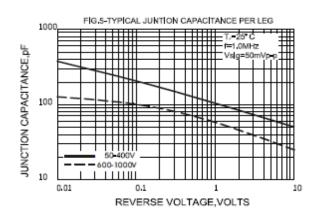


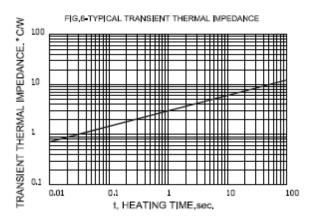










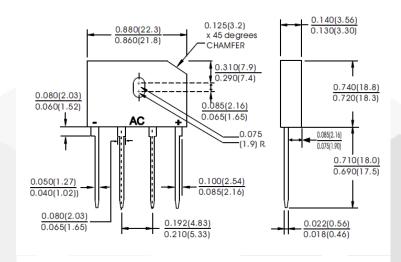




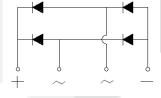
Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.

GBU



Dimensions in inches and (millimeters)



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GBU4J GBU4K GBU4M