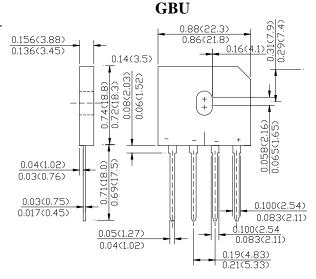


SILICON BRIDGE RECTIFIERS GLASS PASSIVATED BRIDGE RECTIFIERS GBU4005 thru GBU410 SERIES 50 to 1000 V 4.0 A

FEATURES

- Surge overload rating-150 amperes peak
- · Ideal for printed circuit board
- Reliable low cost construction utilizing Molded plastic technique
- Plastic material has Underwriters Laboratory Flammability classification 94V-O
- Mounting Position: Any



Dimensions in inches and Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified. Single phase , half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%.

		GBU4005	GBU401	GBU402	GBU404	GBU406	GBU408	GBU410	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward (with heatsink Note2) Rectified Current @ $T_C = 100^{\circ}C$ (without heatsink)	I _(AV)	4 2.4							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150							Amp
Maximum DC Forward Voltage at 2.0A DC	VF	1.0							Volts
Maximum DC Reverse Current at rated @ T_A =25°C DC Blocking Voltage Per Element @ T_A =125°C	IR	5 500							uAmp
I ² t Rating for fusing (t<8.3ms)	I ² T	93							A^2S
Typical Junction Capacitance (Note 1)	CJ	45							pF
Typical Thermal Resistance (Note 2)	R⊕JC	2.2							°C/W
Operating Temperature Range	T_{J}	-55 to +150							$^{\circ}$
Storage Temperature Range	T _{STG}	-55 to +150							$^{\mathbb{C}}$

Notes:

- 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 2. Device mounted on 50mm x 50mm X 1.6mm Cu Plate Heatsink.



SILICON BRIDGE RECTIFIERS GLASS PASSIVATED BRIDGE RECTIFIERS

GBU4005 thru GBU410 SERIES 50 to 1000 V 4.0 A

RATINGS AND CHARACTERISTIC CURVES (GBU4A THRU GBU4M)

FIG. 1 - FORWARD CURRENT DERATING CURVE

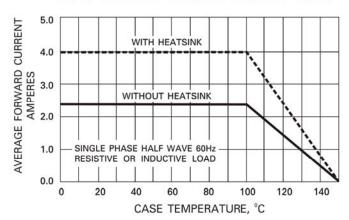


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

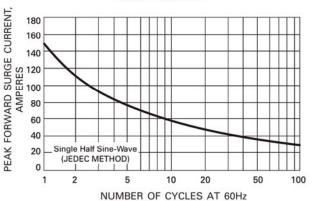


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

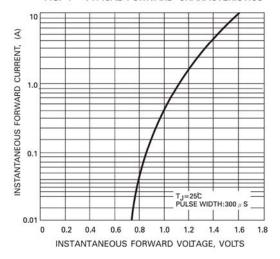


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

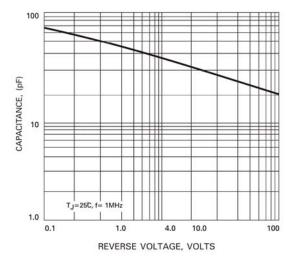


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

