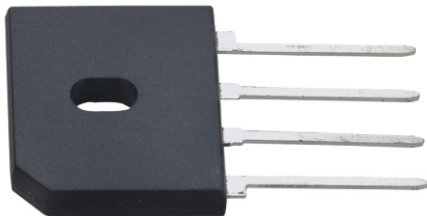


# GBU4A thru GBU4M SERIES

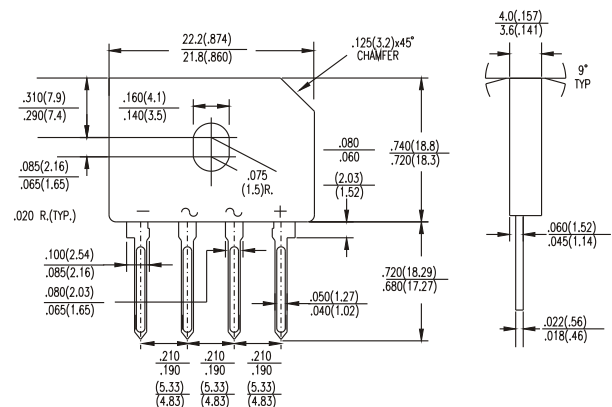
## SILICON BRIDGE RECTIFIERS GLASS PASSIVATED BRIDGE RECTIFIERS



### 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-0
- Mounting Position: Any

REVERSE VOLTAGE -50 to 1000 Volts  
FORWARD CURRENT -4.0 Amperes



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%.

		GBU4A	GBU4B	GBU4D	GBU4G	GBU4J	GBU4K	GBU4M	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note2) Rectified Current @ $T_C=100^{\circ}C$ (without heatsink)	$I_{(AV)}$	4.0 2.4							A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load(JEDEC Method)	$I_{FSM}$	150							A
Maximum DC Forward Voltage at 2.0A DC	$V_F$	1.0							V
Maximum DC Reverse Current @ $T_A=25^{\circ}C$ at rated DC Blocking Voltage @ $T_A=100^{\circ}C$	$I_R$	5.0 500							$\mu A$
$I^2 t$ Rating for fusing ( $t < 8.3ms$ )	$I^2 t$	93							$A^2S$
Typical Junction Capacitance per element(Note1)	$C_J$	45							pF
Typical Thermal Resistance (Note2)	$R_{\theta JC}$	2.2							$^{\circ}C/W$
Operating Temperature Range	$T_J$	-55 to +150							$^{\circ}C$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^{\circ}C$

NOTE: 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.

# GBU4A thru GBU4M SERIES

SILICON BRIDGE RECTIFIERS  
GLASS PASSIVATED  
BRIDGE RECTIFIERS



## RATING AND CHARACTERISTICS CURVES GBU4A THRU GBU4M

FIG. 1 - FORWARD CURRENT DERATING CURVE

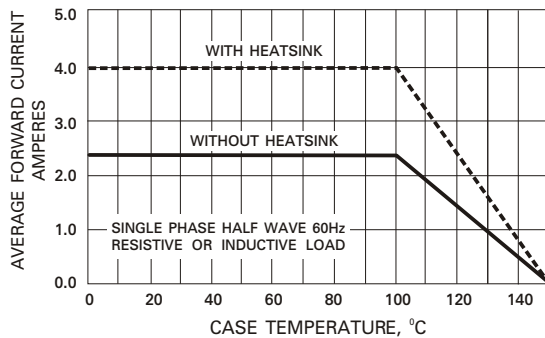


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

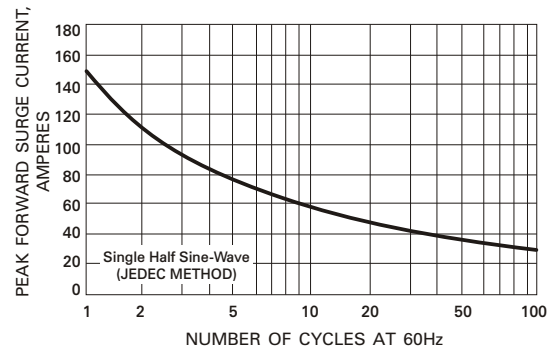


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

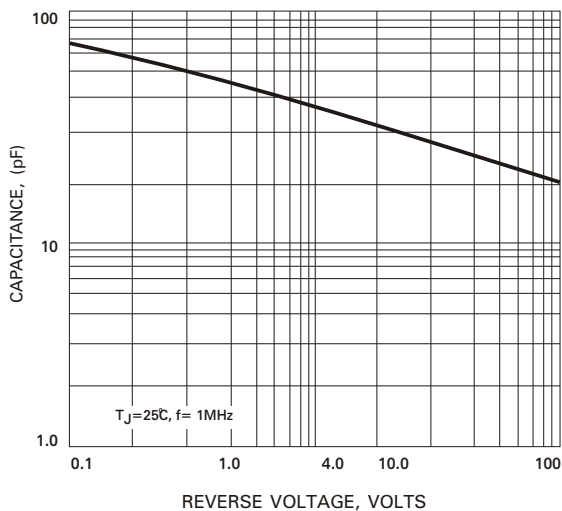


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

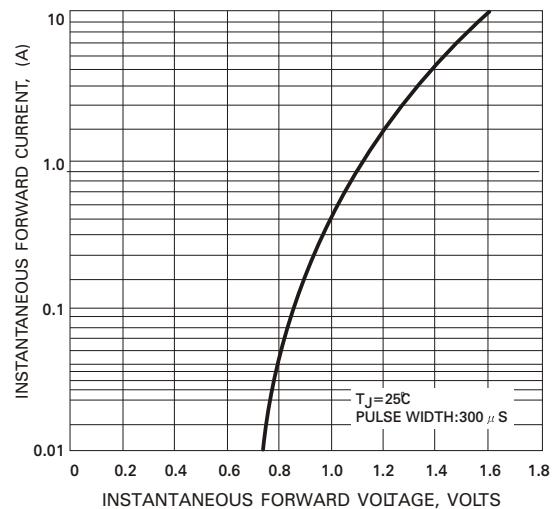


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

