

**VI. Bridge Rectifier**

**4.0A Glass Passivated Bridge Rectifier  
GBU4A~GBU4M**

(Package: GBU)

**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

**MECHANICAL DATA**

- Case : Molded plastic body
- Polarity : Polarity symbols marked on case
- Handling Precautions : None
- Weight : 4.26 grams

Case: GBU  
Dimensions in inches and (millimetres)

**Ratings & Electrical Characteristics**

Characteristics	Symbol	GBU 4A	GBU 4B	GBU 4D	GBU 4G	GBU 4J	GBU 4K	GBU 4M	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 rectified current (with heatsink, Note 2) (without heatsink) @ $T_c = 100$	$I_o$					4.0			Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$					150			Amps
Maximum forward voltage at 4.0A DC	$V_F$					1.1			Volts
Maximum DC reverse current @ $T_j=25$ at rated DC blocking voltage @ $T_j=125$	$I_R$					10.0			$\mu A$
$I^2t$ Rating for Fusing ( $t < 8.3ms$ )	$I^2t$					93			$A^2s$
Typical junction capacitance per element (Note 1)	$C_j$					45			PF
Typical thermal resistance (Note 2)	$R_{th-JC}$					2.2			/ W
Operating temperature range	$T_j$					-55 to +150			
Storage temperature range	$T_{stg}$					-55 to +150			

Notes:  
 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts D.C.  
 2. Device mounted on 50mm\* 50mm\* 1.6mm Cu plate heatsink

# Ratings and Characteristic Curves of GBU4A~GBU4M

FIG.1-FORWARD CURRENT DERATING CURVE

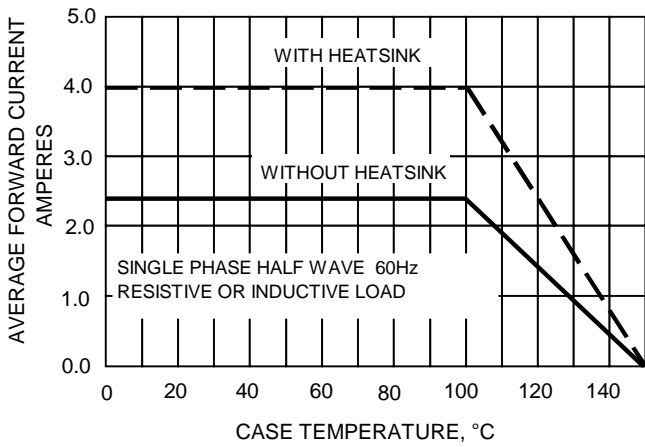


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

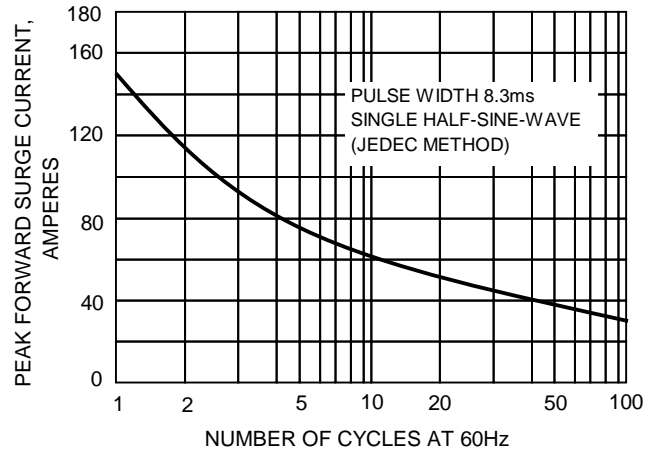


FIG.3-TYPICAL JUNCTION CAPACITANCE

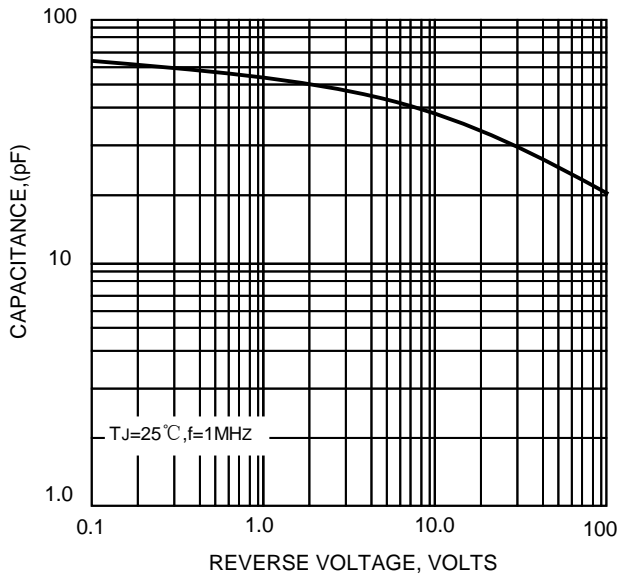


FIG.4-TYPICAL FORWARD CHARACTERISTICS

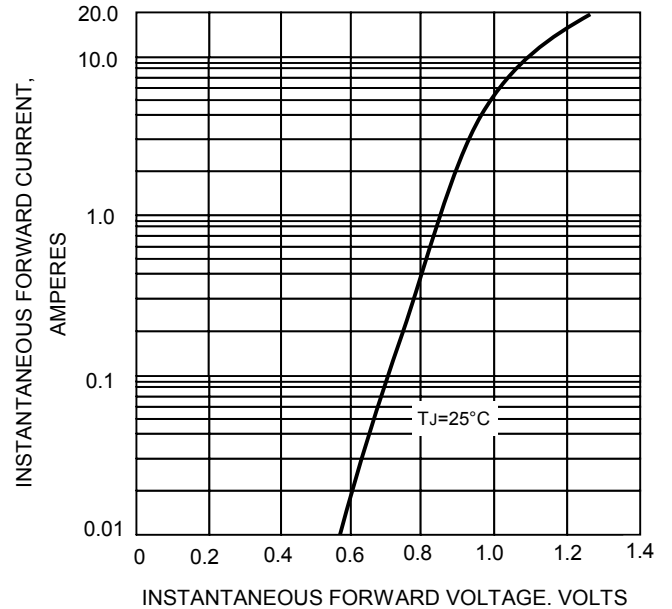


FIG.5-TYPICAL REVERSE CHARACTERISTICS

