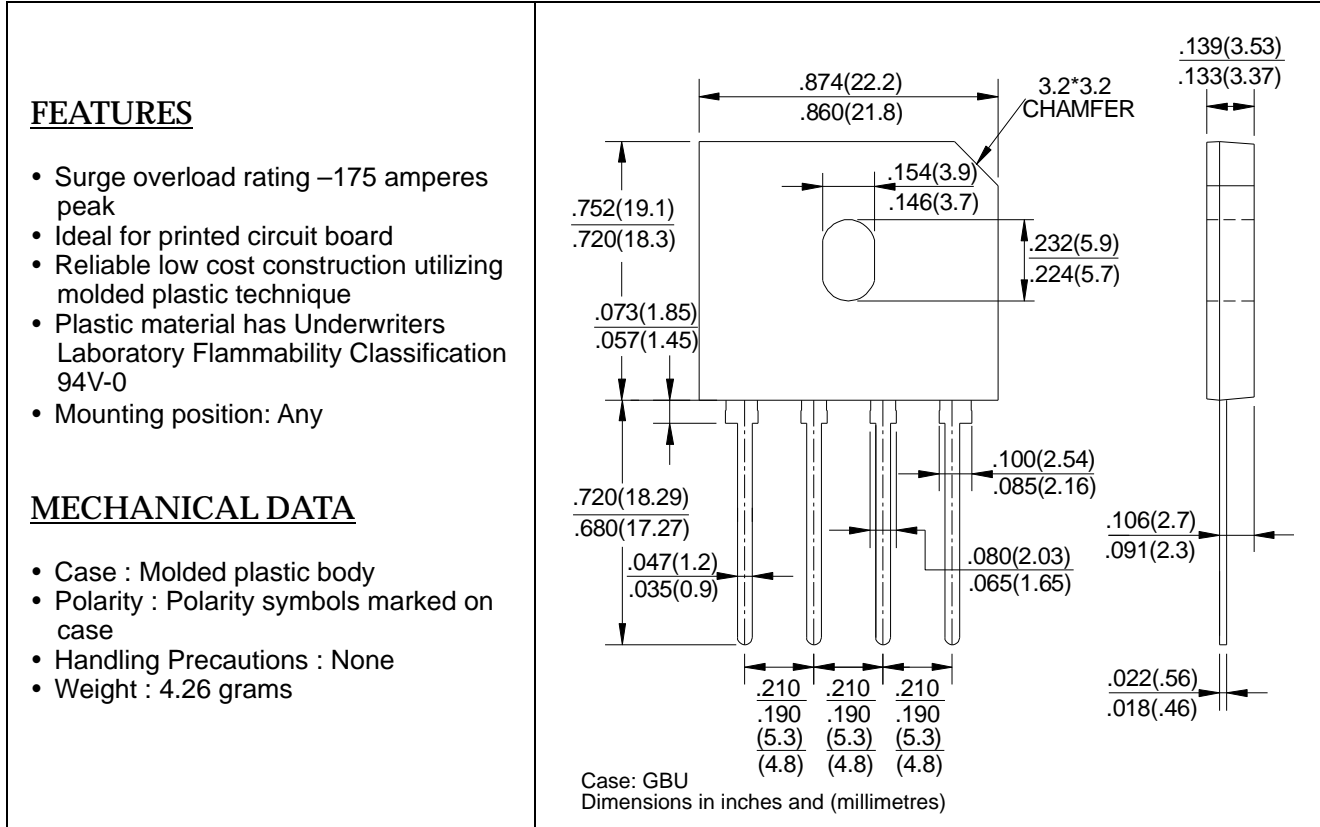


## VI. Bridge Rectifier

### 6.0A Glass Passivated Bridge Rectifier

#### GBU6A~GBU6M

(Package: GBU)



### Ratings & Electrical Characteristics

Characteristics	Symbol	GBU 6A	GBU 6B	GBU 6D	GBU 6G	GBU 6J	GBU 6K	GBU 6M	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) @ $T_c = 100$	$I_o$				6.0				Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$				175				Amps
Maximum forward voltage at 6.0A 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 ( $t < 8.3ms$ )	$I^2t$				127				$A^2s$
Typical junction capacitance per element (Note 1)	$C_j$				50				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 75mm\* 75mm\* 1.6mm Cu plate heatsink

# Ratings and Characteristic Curves of GBU6A~GBU6M

FIG.1-FORWARD CURRENT DERATING CURVE

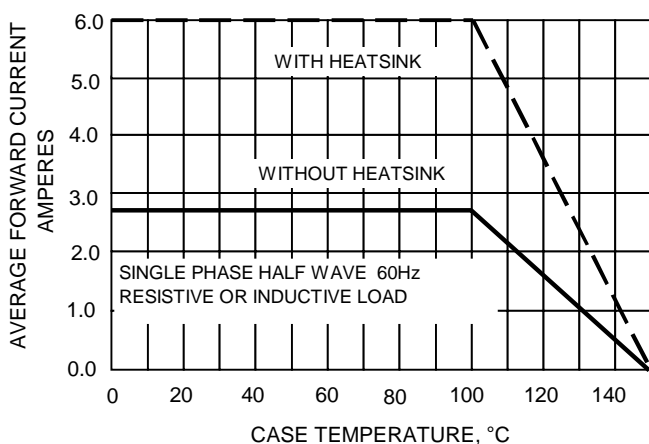


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

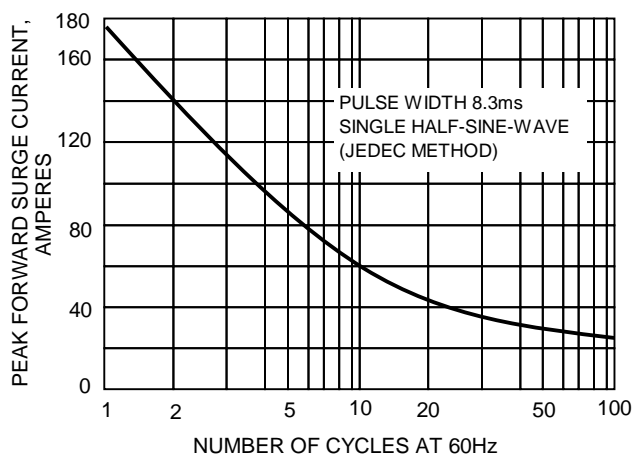


FIG.3-TYPICAL JUNCTION CAPACITANCE

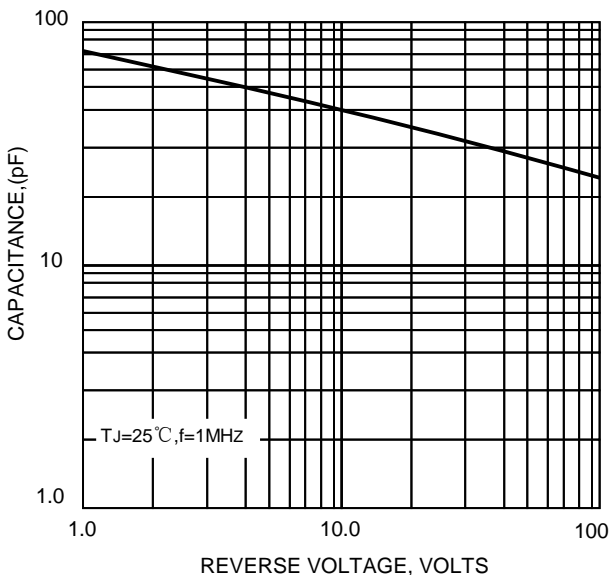


FIG.4-TYPICAL FORWARD CHARACTERISTICS

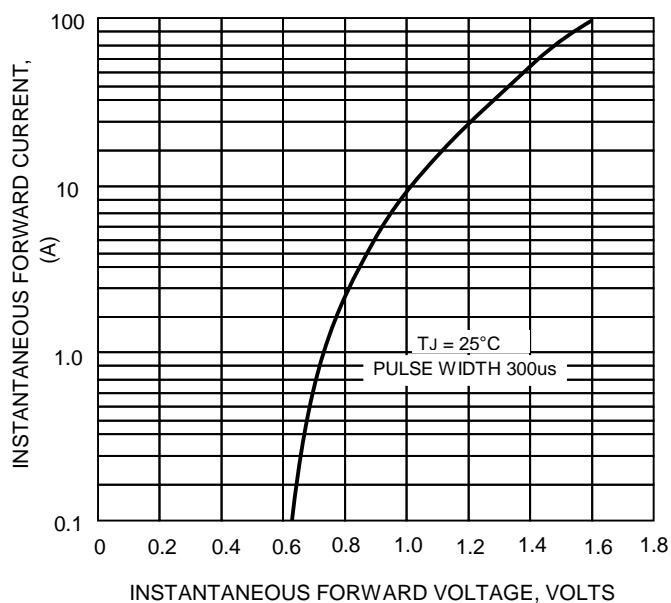


FIG.5-TYPICAL REVERSE CHARACTERISTICS

