

10.0Amp Bridge Rectifiers
FEATURES :

- Reliable low cost construction utilizing molded plastic technique
- High Surge current capability
- Glass passivated junction chip
- Low forward voltage drop.
- Low reverse leakage current
- RoHS compliant.

MECHANICAL DATA :

- Case : Molded plastic body, GBU
- Polarity : As Marked on Body
- Mounting Position : Any


MAXIMUM RATINGS (Ratings at 25 °C ambient temperature unless otherwise specified)

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristic	Symbol	GBU 1001	GBU 1002	GBU 1004	GBU 1006	GBU 1008	GBU 1010	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum average forward rectified current	$I_{F(AV)}$	10						A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	220						A
Rating for fusing (t=8.3ms, Ta=25 °C)	I^2t	200						A ² s
Maximum instantaneous forward voltage at 7.5A	V_F	1.00						V
Maximum DC reverse current at rated DC blocking voltage (T _J =25 °C / 125 °C)	I_R	5 / 100						uA
Typical thermal resistance	$R_{\theta JA}$ $R_{\theta JC}$	25 2.2						°C/W

Operating junction and storage temperature range	T_J, T_{STG}	-55~+150	°C
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RATINGS AND CHARACTERISTICS CURVES

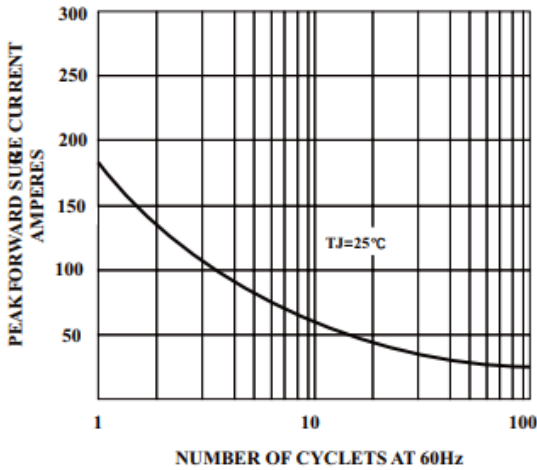


Figure 1. MAXIMUM FORWARD SURGE CURRENT

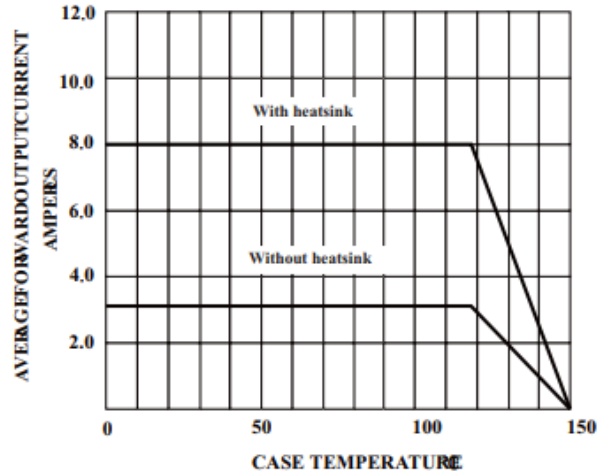


Figure 2. FORWARD CURRENT DERATING CURVE

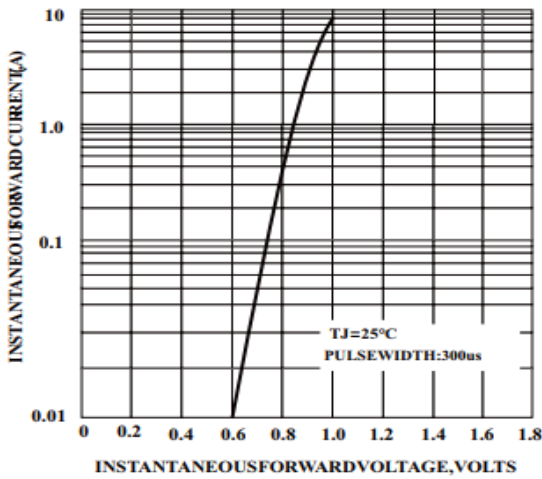


Figure 3. TYPICAL FORWARD CHARACTERISTICS

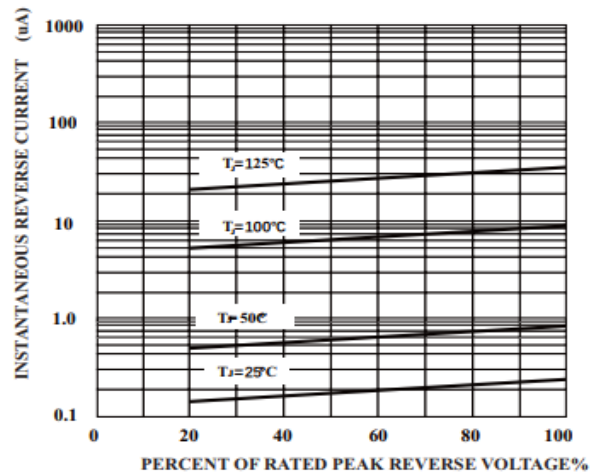
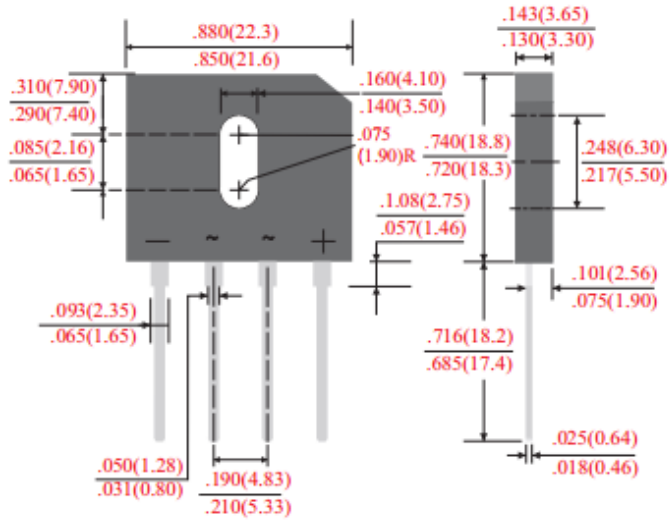
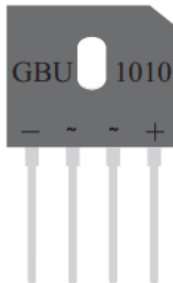


Figure 4. TYPICAL REVERSE CHARACTERISTICS

- Package outlines : Dimensions in inches and (millimeters)



- Marking :



Part No	Marking code
GBU1001	GBU1001
GBU1002	GBU1002
GBU1004	GBU1004
GBU1006	GBU1006
GBU1008	GBU1008
GBU1010	GBU1010

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