

Pb Free Plating Product

GBU10005 thru GBU1010



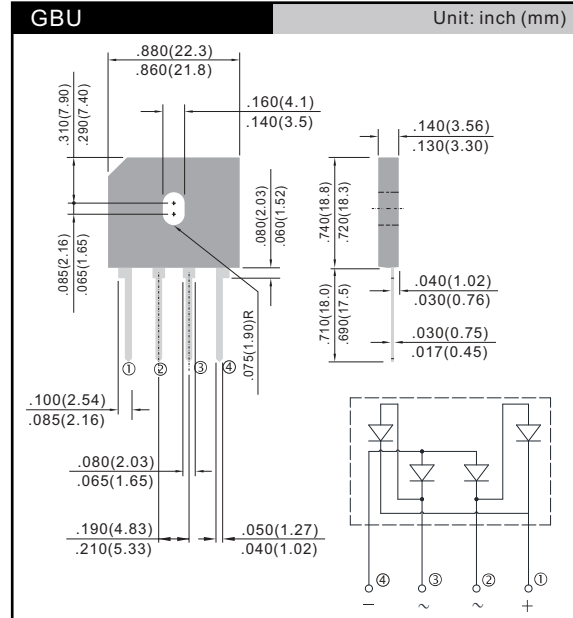
6.0 AMPERE GLASS PASSIVATED SINGLE PHASE BRIDGE RECTIFIERS

Features

- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Ideal for printed circuit boards
- Glass passivated chip junction
- Reliable low cost construction utilizing molded plastic technique

Mechanical Data

- **Case:** Molded plastic GBU
- **Terminals:** leads solderable per MIL-STD-202 Method 208 guaranteed
- **Mounting Position:** Any



Maximum Ratings and Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

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

Characteristic	Symbol	GBU 10005	GBU 1001	GBU 1002	GBU 1004	GBU 1006	GBU 1008	GBU 1010	Unit	
Peak Repetitive Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V	
Working Peak Reverse Voltage	V _{RWM}									
DC Blocking Voltage	V _R									
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V	
Average Forward Rectified Current (Note 4) @ T _C = +100°C	I _(AV)	10								A
Non-Repetitive Peak Forward Surge Current	I _{FSM}	220								A
8.3ms Single Half Sine-Wave Superimposed on Rated Load										
Forward Voltage (per element) @ I _F = 5.0A	V _{FM}	1.0								V
Peak Reverse Current at @ T _C = +25°C	I _R	5.0								µA
Rated DC Blocking Voltage @ T _C = +125°C		500								
I ² t Rating for Fusing (Note 5)	I ² t	200								A ² s
Typical Total Capacitance per Element (Note 6)	C _T	60								pF
Typical Thermal Resistance Junction to Case (Note 4)	R _{θJC}	2.2								°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150								°C

Notes: 4. Unit mounted on 100mm x 100mm x 1.6mm copper plate heatsink.
5. Non-repetitive, for t > 1.0ms and < 8.3ms.
6. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

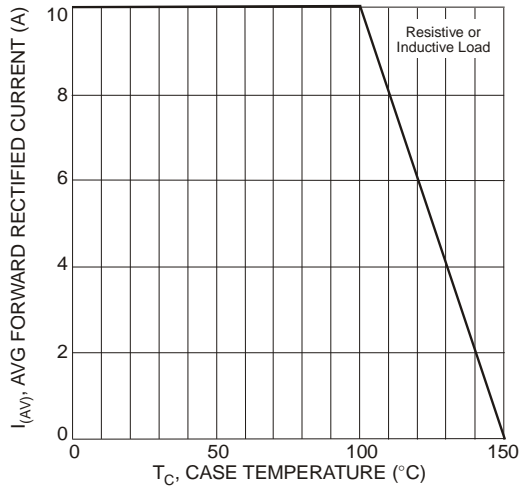


Figure 1 Forward Current Derating Curve

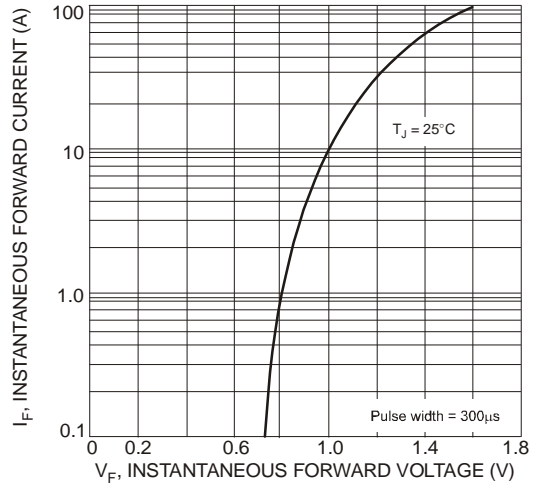


Figure 2 Typical Forward Characteristics, per element

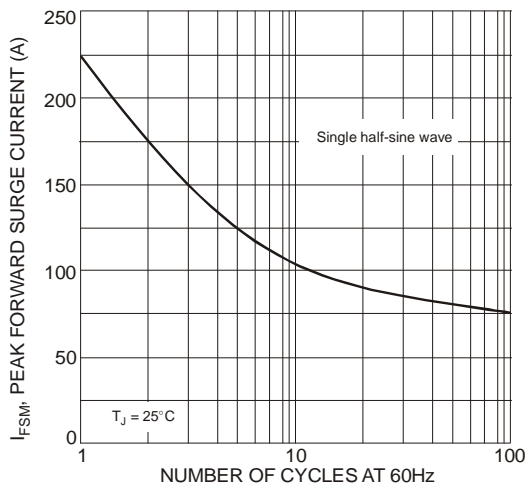


Figure 3 Maximum Non-Repetitive Surge Current

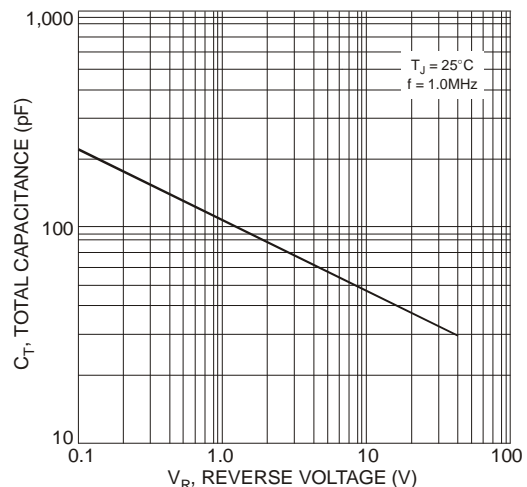


Figure 4 Typical Total Capacitance, per element