Suntan_® Su_®

GBU10005 THRU GB1010

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 10 Ampere

FEATURES

- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-0
- ◆ Ideal for printed circuit boards
- ♦ Glass passivated chip junction
- ♦ High forward surge capability

Mechanical Data

- ◆Case: GBU Molded plastic body
- ◆ Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- ♦ High temperature soldering guaranteed: 260°C/10 seconds
- ♦ Mounting Position: Any

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at $TA = 25^{\circ}C$ unless otherwise specified

PARAMETER	SYMBOL	GBU 10005	GBU 1001	GBU 1002	GBU 1004	GBU 1006	GBU 1008	GBU 1010	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	v
Maximum RMS 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
Average forward $Tc = 80 \ ^{\circ}C$ With heatsinkrectified output current $TA = 25 \ ^{\circ}C$ Without heatsink	$I_{F^{(\text{AV})}}$	10.0 3.2						А	
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	175					А		
Rating for fusig (t<8.3ms)	I ² t				127				A ² sec
Maximum instantaneous forward voltage dropper leg at 5A	VF				1.0				V
Maximum DC reverse current $T_j = 25^{\circ}C$ at rated DC blocking voltage per leg $T_j = 125^{\circ}C$	IR	5.0 500						μΑ	

THERMAL CHARACTERISTICS

Typical Junction Capacitance per element (Note 1)	$R_{\theta JA(2)}$	25	°C/W
	$R_{\theta JL(1)(3)}$	2.3	
Operating junction temperature range	T _J	-55 to +150	°C
Storage temperature range	Tstg	-55 to +150	°C

Note: 1. Unit case mounted on aluminum plate heatsink

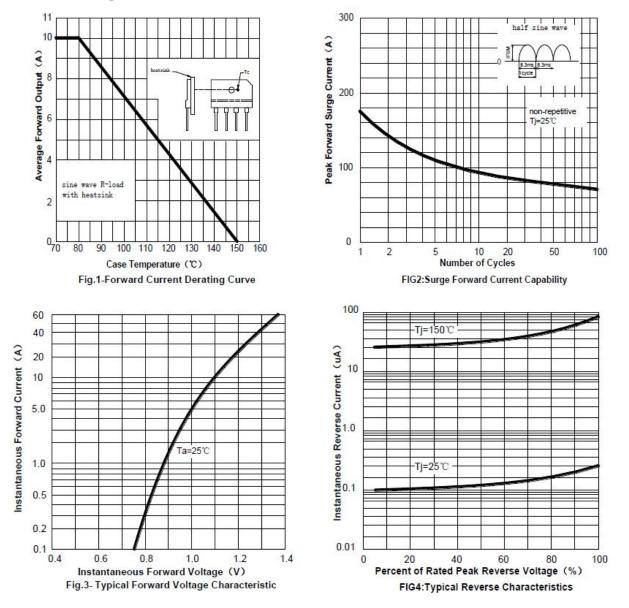
2. Units mounted on P.C.B. with 0.5 x 0.5" (12 x 12 mm) copper pads and 0.375" (9.5 mm) lead length

3. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screws

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Ratings and Characteristic Curves (T_A=25°C unless otherwise noted)

Note: Specifications are subject to change without notice. For more detail and update, please visit our website.