



GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 50 to 1000 Volts CURRENT

6 Amperes



Recongized File #E228882

FEATURES

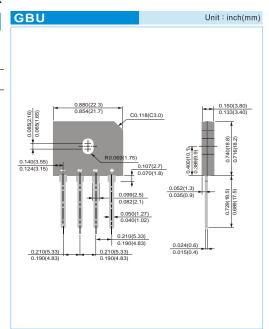
- Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Surge overload rating : 175 Amperes peak
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

Case: Reliable low cost construction utilizing molded plastic technique

Terminals: Leads solderable per MIL-STD-750, Method 2026

Mounting torque: 5 in. lb. Max. Weight: 0.15 ounce, 4 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°Cambient temperature unless otherwise specified. Resistive or inductive load, 60Hz. For Capacitive load derate current by 20%.

PARAMETER	SYMBOL	GBU6A	GBU6B	GBU6D	GBU6G	GBU6J	GBU6K	GBU6M	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward T _c =100°C Rectified Output Current at T _A =40°C	I _{F(AV)}	6							А
I ² t Rating for fusing (t<8.3ms)	l²t	127							A²sec
Peak Forward Surge Current single sine-wave superimposed on rated load	I _{FSM}	175						Apk	
Maximum Instantaneous Forward Voltage Drop per element at 3A	V _F	1					Vpk		
Maximum Reverse Leakage Current at Rated @ T _A =25°C Dc Blocking Voltage @ T _A =100°C	I _R	5 500					μА		
Typical Thermal Resistance per leg (Note 2) (Note 3)	R _{⊕JA} R _{⊕JC}	22 5				°C/W			
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to + 150				°C			

NOTES:

- 1. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw.
- 2. Units Mounted in free air, no heatsink, P.C.B at 0.375"(9.5mm) lead length with 0.5 x 0.5"(12 x 12mm)copper pads.
- 3. Units Mounted on a 2.6 x 1.4" x 0.06" thick (6.5 x 3.5 x 0.15cm) AL plate.

SEP 01,2014-REV.09 PAGE . 1





RATING AND CHARACTERISTIC CURVES

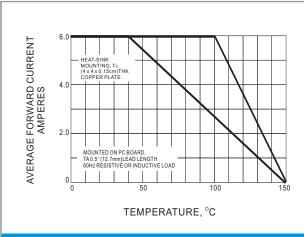


Fig.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

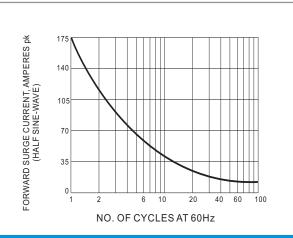


Fig.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

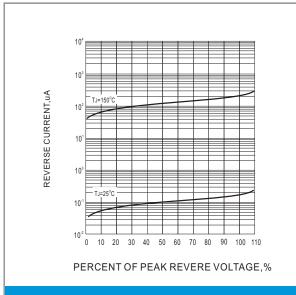


Fig.3 - TYPICAL REVERSE CHARACTERISTICS

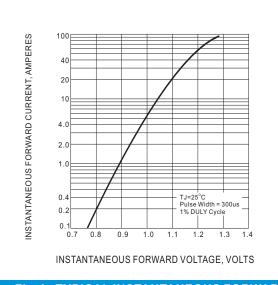


Fig.4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT

SEP 01,2014-REV.09 PAGE . 2

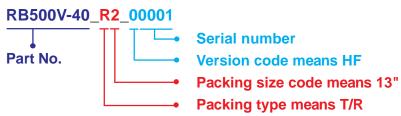




Part No_packing code_Version

GBU6A_B0_00001 GBU6A_B0_10001 GBU6A_T0_00001 GBU6A_T0_10001

For example:



Packing Code XX					Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code			
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number			
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number			
Bulk Packing (B/P)	В	13"	2						
Tube Packing (T/P)	Т	26mm	X						
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y						
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U						
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D						

SEP 01,2014-REV.09 PAGE . 3





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SEP 01,2014-REV.09 PAGE . 4