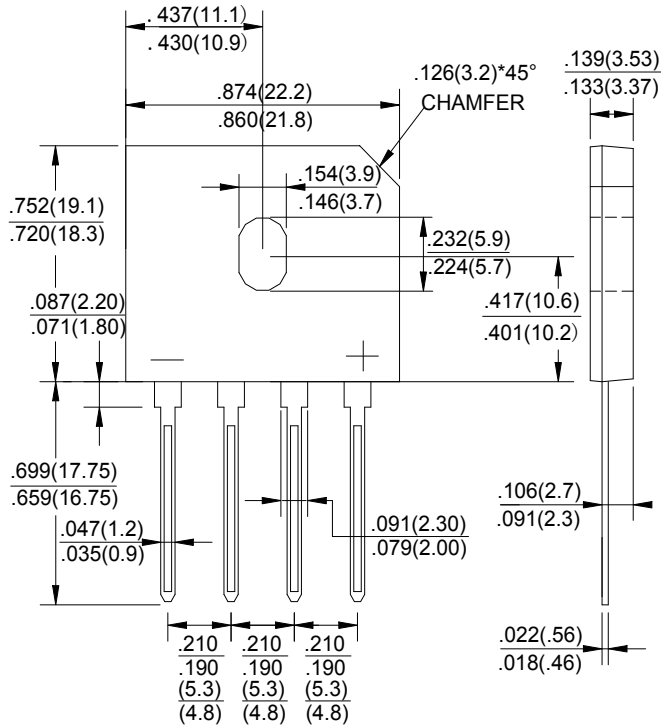




GBU10005 thru GBU1010

GLASS PASSIVATED BRIDGE RECTIFIERS
REVERSE VOLTAGE - 50 to 1000Volts
FORWARD CURRENT - 10 Amperes



FEATURES

- Surge overload rating -220 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L flammability classification 94V-0
- Mounting position:Any
- Weight: 0.134 ounces , 3.79 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.Single phase, half wave ,60Hz, resistive or inductive load.For capacitive load, derate current by 20%

Package: GBU

CHARACTERISTICS	SYMBOL	GBU 10005	GBU 1001	GBU 1002	GBU 1004	GBU 1006	GBU 1008	GBU 1010	UNIT
Maximum Recurrent 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
Maximum Average Forward (with heatsink Note 2)	I _(AV)	10							A
Rectified Current @ T _c =100°C (without heatsink)		3.0							
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	220							A
Maximum Forward Voltage at 5.0A DC	V _F	1.0							V
Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =125°C	I _R	10.0 500							uA
I ² t Rating for Fusing (t<8.3ms)	I ² t	200							A ² s
Typical Junction Capacitance Per Element (Note1)	C _J	70							pF
Typical Thermal Resistance (Note2)	R _{θJC}	2.2							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 2.Device mounted on 100mm*100mm*1.6mm cu plate heatsink.



GBU10005 thru GBU1010

GLASS PASSIVATED BRIDGE RECTIFIERS RATING AND CHARACTERISTIC CURVES

Fig. 1 - Forward Current Derating Curve
图1 正向电流降额曲线

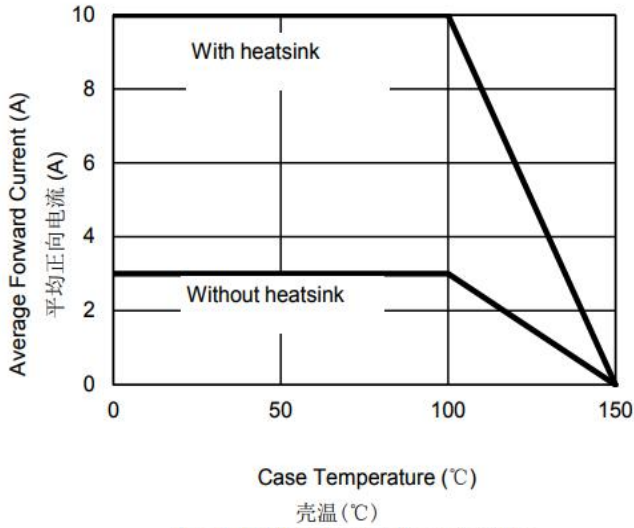


Fig. 2 - Maximum Non-Repetitive Surge Current
图2 最大不重复正向浪涌曲线

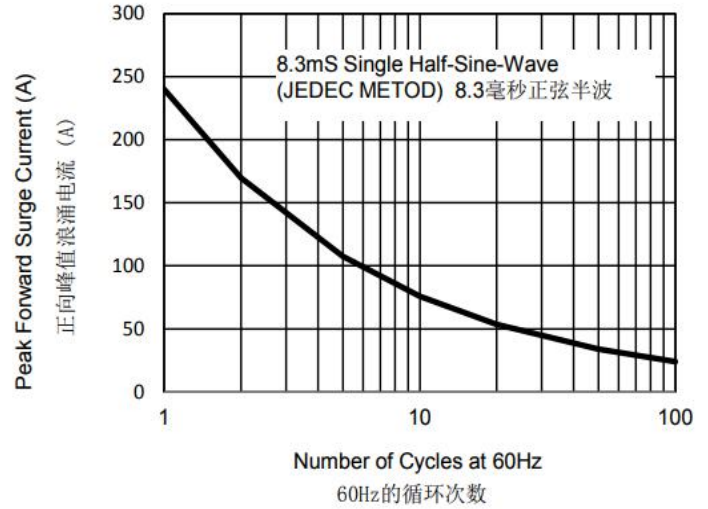


Fig. 3 - Typical Reverse Characteristics
图3 典型的反向特性

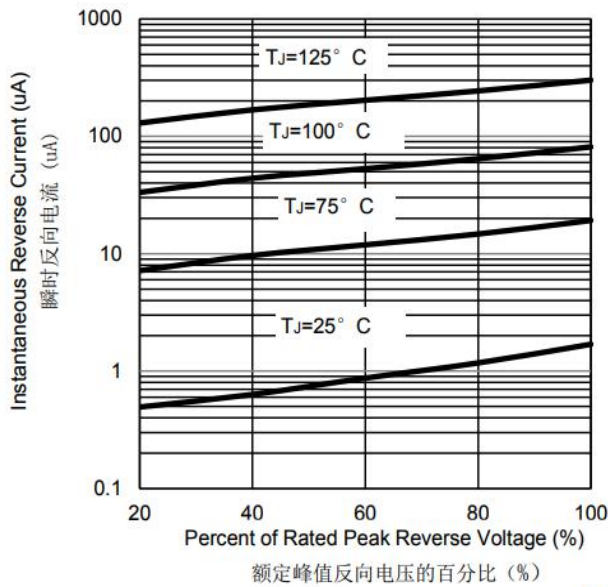


Fig. 4 - Typical Forward Characteristics
图4 典型的正向特性

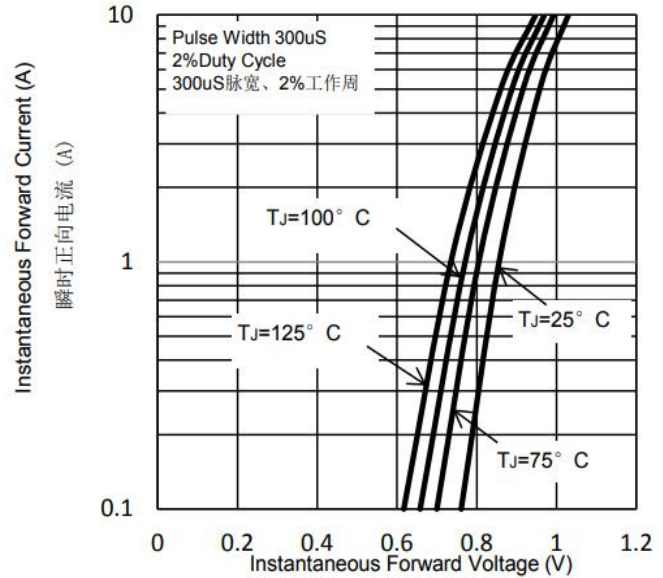


Fig. 5 - Typical Junction Capacitance
图5 典型的结电容

