



SHENZHEN FAITH TECHNOLOGY CO.,LTD

GLASS PASSIVATED BRIDGE RECTIFIERS

GBU6005 thru GBU610

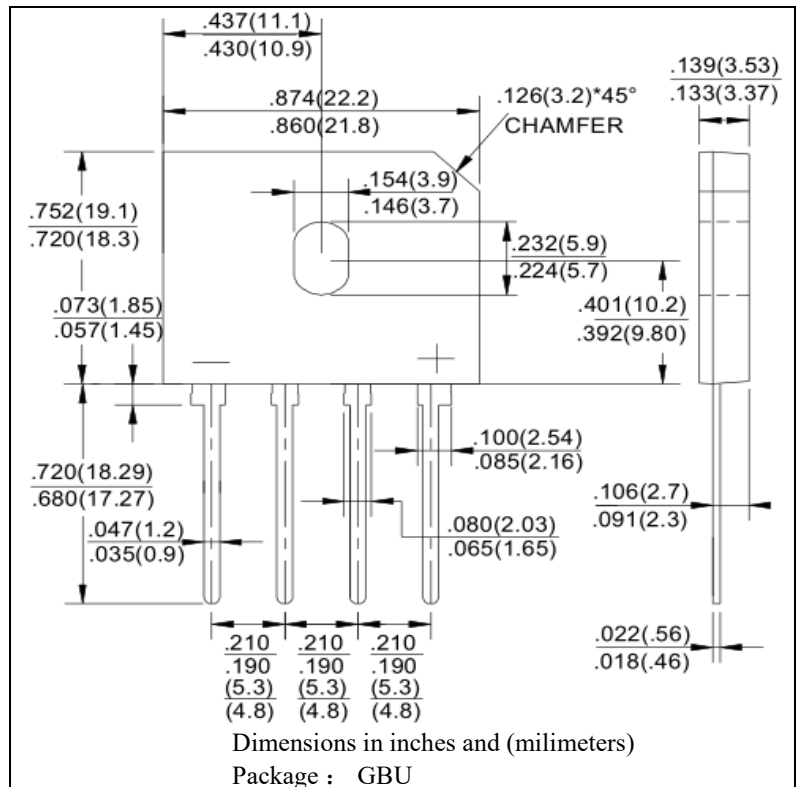
VOLTAGE RANGE 50 to 1000 Volts
CURRENT 6.0 Ampere

FEATURES

- Surge overload rating -175 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L the flammability classification 94V-0
- Mounting position:Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive



MDD Catalog Number	SYMBOLS	GBU 6005	GBU 601	GBU 602	GBU 604	GBU 606	GBU 608	GBU 610	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum average forward(with heatsink NOTE 2) Rectified current @ $T_c=100^\circ\text{C}$ (without heatsink)	I_{AV}	6.0						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	175.0						Amps	
Rating for Fusing($t<8.3\text{ms}$)	I^2t	127						A^2s	
Maximum forward voltage at 3.0A DC	V_F	1.1						Volts	
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=125^\circ\text{C}$	I_R	10						μA	
Typical Junction Capacitance (Note 1)	C_J	50						pF	
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	2.2						$^\circ\text{C}/\text{W}$	
Operating junction temperature range	T_J	-55 to +150						$^\circ\text{C}$	
storage temperature range	T_{STG}	-55 to +150						$^\circ\text{C}$	

NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Device mounted on 75mm*75mm*1.6mm cu plate heatsink.
3. The typical data above is for reference only



SHENZHEN FAITH TECHNOLOGY CO.,LTD

GLASS PASSIVATED BRIDGE RECTIFIERS

GBU6005 thru GBU610

VOLTAGE RANGE 50 to 1000 Volts
CURRENT 6.0 Ampere

RATING AND CHARACTERISTIC CURVES

