

# GBU6005 THRU GBU610



SINGLE PHASE 6.0 AMP BRIDGE RECTIFIERS

## FEATURES

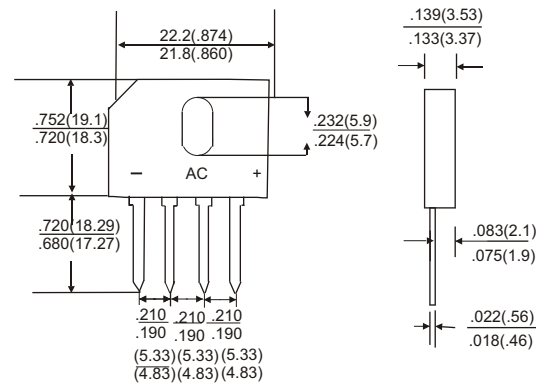
- \* Ideal for printed circuit board
- \* Low forward voltage
- \* Low leakage current
- \* Polarity: marked on body
- \* Mounting position: Any
- \* Both normal and Pb free product are available:
  - \* Normal:80~95%Sn,5~20%Pb
  - \* Pb free:99 Sn above can meet Rohs enviroment substance directive request

## VOLTAGE RANGE

50 to 1000 Volts

## CURRENT

6.0 Ampere



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	GBU6005	GBU601	GBU602	GBU604	GBU606	GBU608	GBU610	UNITS	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current									
.375"(9.5mm) Lead Length at Tc=50 °C								6.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)								200	A
Maximum Forward Voltage Drop per Bridge Element at 3.0A D.C.								1.0	V
Maximum DC Reverse Current Ta=25°C								5	uA
at Rated DC Blocking Voltage Ta=100°C								100	uA
Rating for fusing (t<8.3ms)								127.0	A <sup>2</sup> sec
Storage Temperature Range, TSTG								-55 — +150	°C

# RATING AND CHARACTERISTIC CURVES (GBU6005 THRU GBU610)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

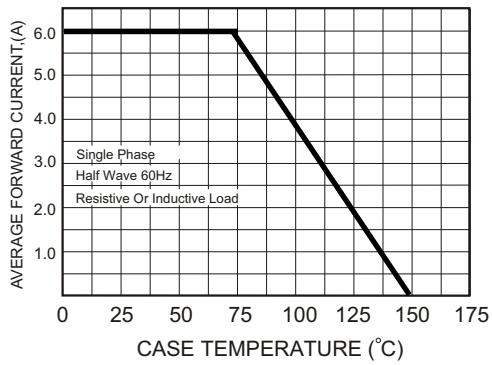


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

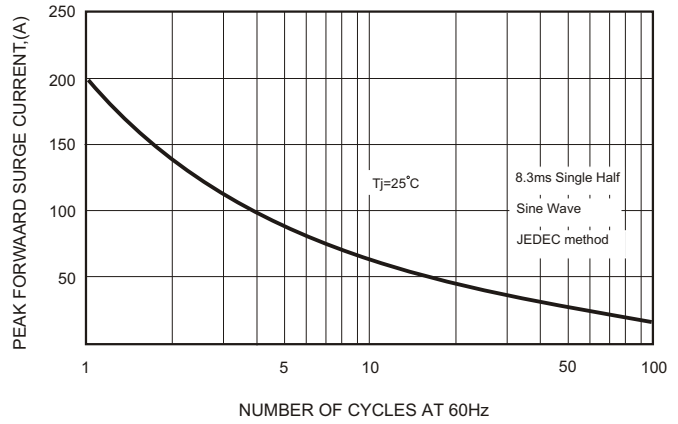


FIG.3-TYPICAL FORWARD CHARACTERISTICS

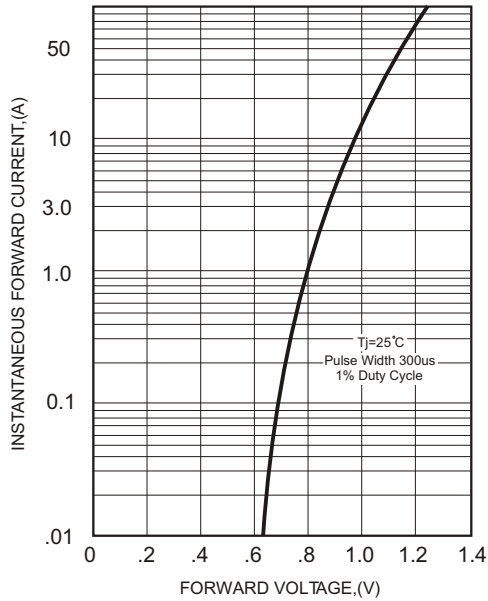


FIG.4-TYPICAL REVERSE CHARACTERISTICS

