Datasheet

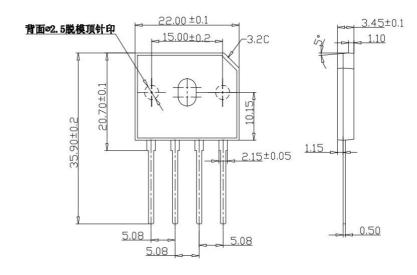
Features

- · Glass passivated die construction
- Low forward voltage drop
- · High current capability
- · High surge current capability
- Designed for surface mount application • Plastic material-UL flammability 94V-0

Mechanical Data

- · Case: GBU, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- · Polarity: as marked on case
- Mounting position: Any
- Marking: type number
- · Lead Free: For RoHS / Lead Free Version,

GBU



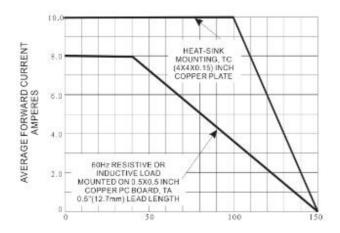
Maximum Ratings and Electrical Characteristics

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%.

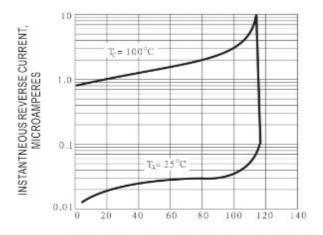
T of capacitive load, detaile editerit by 2070	·						·	 	
TYPE NUMBER	SYMBOL	GBU10005	GBU1001	GBU1002	GBU1004	GBU1006	GBU1008	GBU1010	UNITS
Peak Repetitive Reverse Voltage	VRRM								
Working Peak Reverse Voltage	VRWM	50	100	200	400	600	800	1000	V
DC Blocking Voltage	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	٧
Maximum average forward rectified current @ °C	lo	10							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	200							А
Forward Voltage per element @IF=1.0A	VFM	1.1							٧
Peak Reverse Current @_A =25 °C		5.0							
At Rated DC Blocking Voltage @T₄ =125℃	lr	500							uA
Typical Junction Capacitance per leg (Note 1)	CJ	255 125						pF	
Typical Thermal Resistance per leg (Note 2)	Rөja	8.6							°C/W
	Rejl	3.1							
Operating and Storage Temperature Range	Т _J ,Тsтg	-55to+150							$^{\circ}$

Note:1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2.Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B with 0.5×0.5"(13×13mm)cop



TEMPERATURE © Fig.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT



PERCENT OF PEAK REVERSE VOLTAGE

Fig.3 - TYPICAL REVERSE CHARACTERISTICS

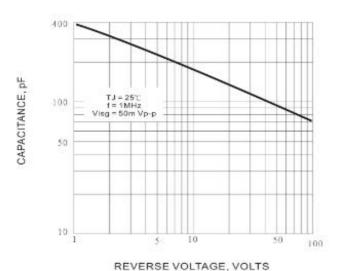
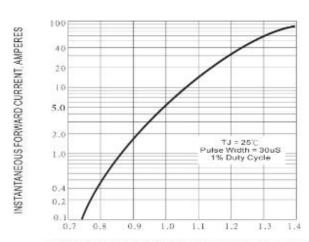


FIG.5 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig.2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT

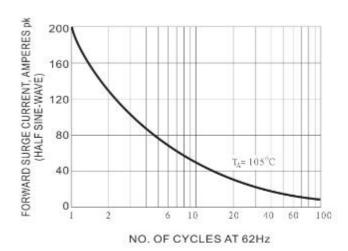


Fig.4 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT