

CURRENT 35 Ampere  
 VOLTAGE RANG 50 to 1000 Volts

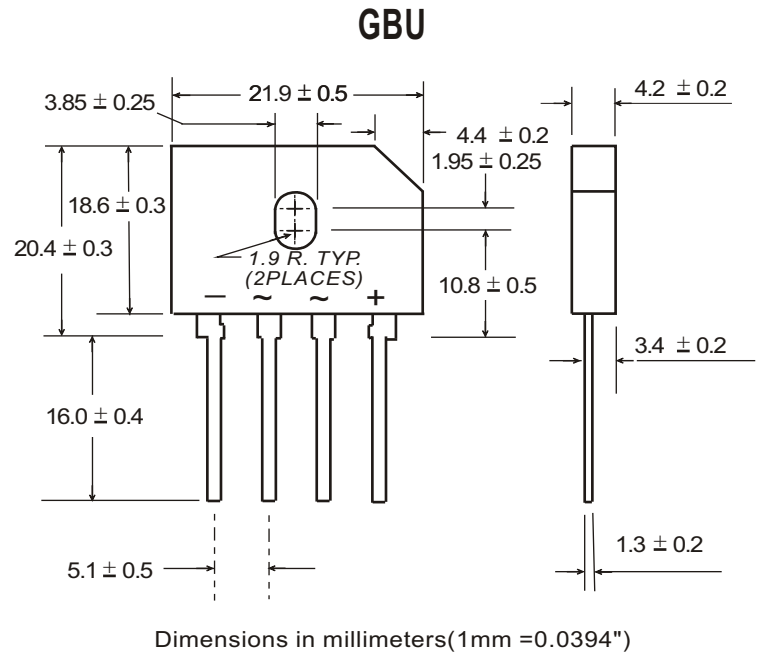
## GBU35005 THRU GBU3510

### Features

- This series is SGS listed under the Recognized Component Index, file number SZXEC1902259902
- Ideal for P.C. Board mounting
- High surge current capability
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- High temperature soldering guaranteed 265°C /10 seconds at 5 lbs (2.3kg) tension

### Mechanical Data

Case: Molded plastic body  
 Terminals: Plated leads solderable per MIL-STD-202, Method 208  
 Polarity: Polarity symbols molded on body  
 Mounting Position:: Any  
 Mounting Torque: 5 in-lbs max.  
 Weight: 4.0 grams (approx)



### 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%

CHARACTERISTICS	SYMBOL	GBU 35005	GBU 3501	GBU 3502	GBU 3504	GBU 3506	GBU 3508	GBU 3510	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ T <sub>C</sub> =100°C (with heatsink Note 2) @ T <sub>C</sub> =100°C (without heatsink)	I <sub(av)< sub=""></sub(av)<>	35.0 4.2							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	350							A
Maximum Forward Voltage at 17.5A DC	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current @ T <sub>J</sub> =25°C at Rated DC Blocking Voltage @ T <sub>J</sub> =125°C	I <sub>R</sub>	5.0 500							µA
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	508							A <sup>2</sup> s
Typical Junction Capacitance Per Element (Note1)	C <sub>J</sub>	70							pF
Typical Thermal Resistance	R <sub>θJC</sub>	2.2							°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-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.

3.The typical data above is for reference only(典型值仅供参考).

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**Rating and Characteristic Curves (  $T_A=25^{\circ}C$  Unless otherwise noted )**

FIG.1-MAXIMUM FORWARD SURGE CURRENT

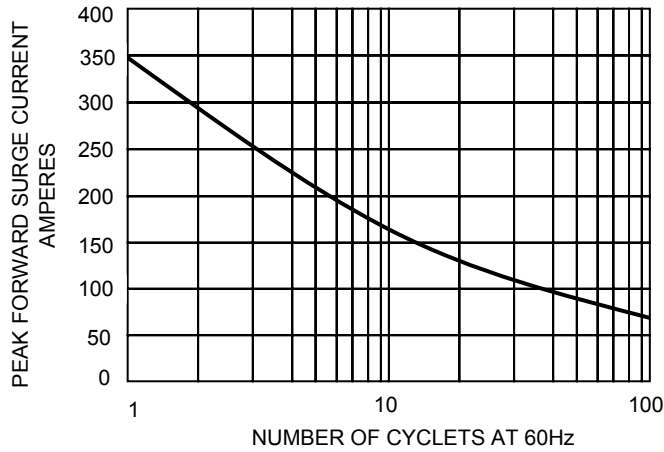


FIG.2- DERATING CURVE  
 OUTPUT RECTIFIED CURRENT

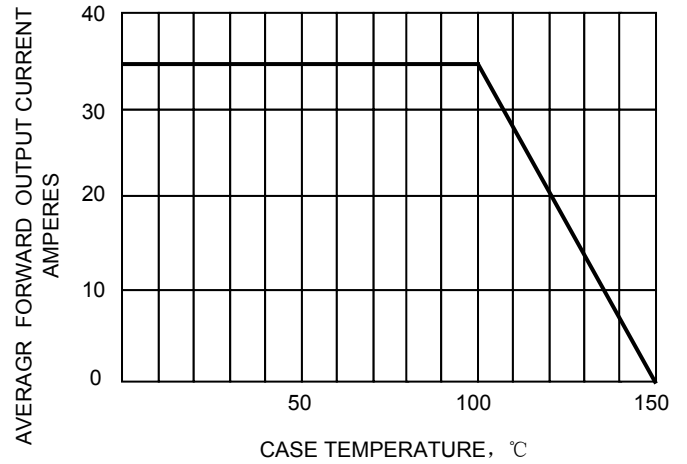


FIG.3-TYPICAL FORWARD  
 CHARACTERISTICS

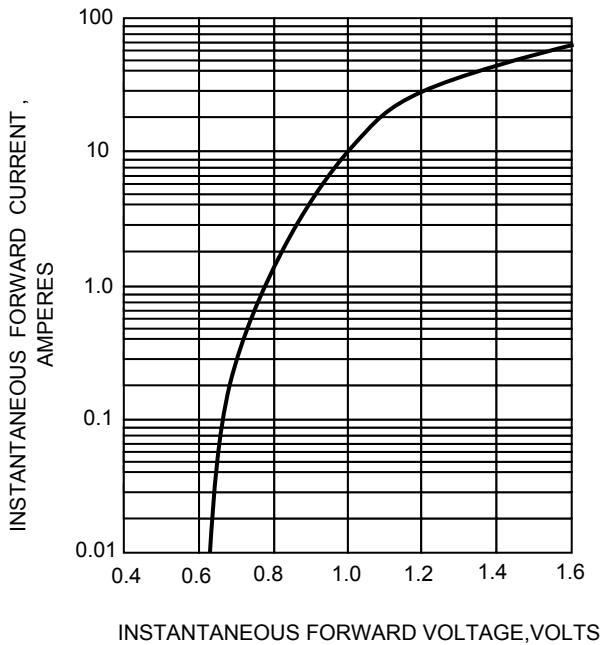


FIG.4-TYPICAL REVERSE  
 CHARACTERISTICS

