

<b>SILICON BRIDGE RECTIFIERS</b>	<p>REVERSE VOLTAGE - <b>50 to 1000</b>Volts          FORWARD CURRENT - <b>10/15/25</b> Amperes</p>
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>● Surge overload rating -240~400 amperes peak</li> <li>● Ideal for printed circuit board</li> <li>● Reliable low cost construction utilizing molded plastic technique</li> <li>● Plastic material has U/L flammability classification 94V-0</li> <li>● Mounting position: Any</li> </ul>	<p><b>GBU-C</b></p> <p>Dimensions in inches and (millimeters)</p>

**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 10005C	GBU 1001C	GBU 1002C	GBU 1004C	GBU 1006C	GBU 1008C	GBU 1010C	UNIT	
		15005C	1501C	1502C	1504C	1506C	1508C	1510C		
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V <sub>RMS</sub>	30	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)	I <sub>(AV)</sub>	10		15		25			A	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	3.0		3.2		4.2			A	
Maximum Forward Voltage at 5.0/7.5/12.5A DC	V <sub>F</sub>	1.1								V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T <sub>J</sub> =25°C	I <sub>R</sub>	10								uA
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T <sub>J</sub> =125°C	I <sub>R</sub>	500								uA
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	200								A <sup>2</sup> s
Typical Junction Capacitance Per Element (Note1)	C <sub>J</sub>	70								pF
Typical Thermal Resistance (Note2)	R <sub>θJC</sub>	2.2								°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +125								°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.

FIG.1-MAXIMUM FORWARD SURGE CURRENT

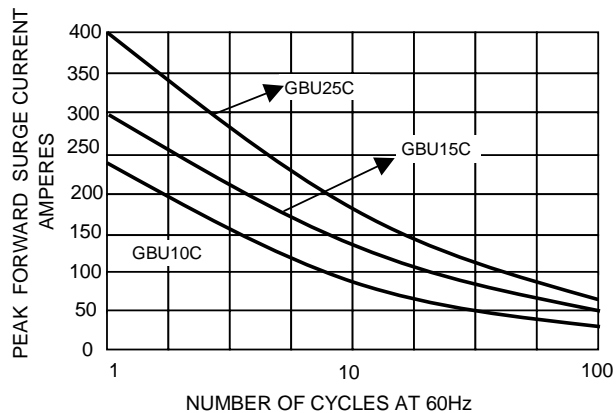


FIG.2- DERATING CURVE  
 OUTPUT RECTIFIED CURRENT

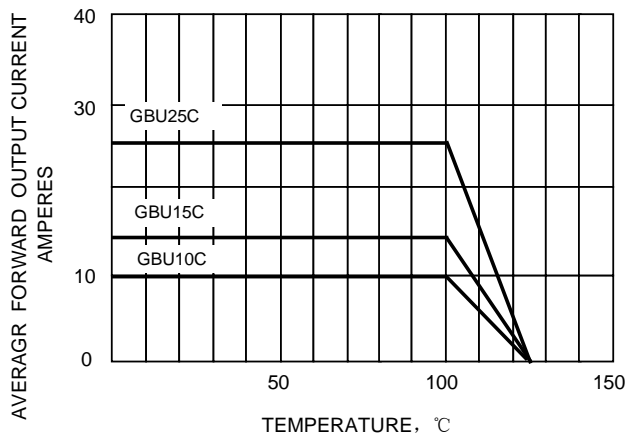


FIG.3-TYPICAL FORWARD CHARACTERISTICS

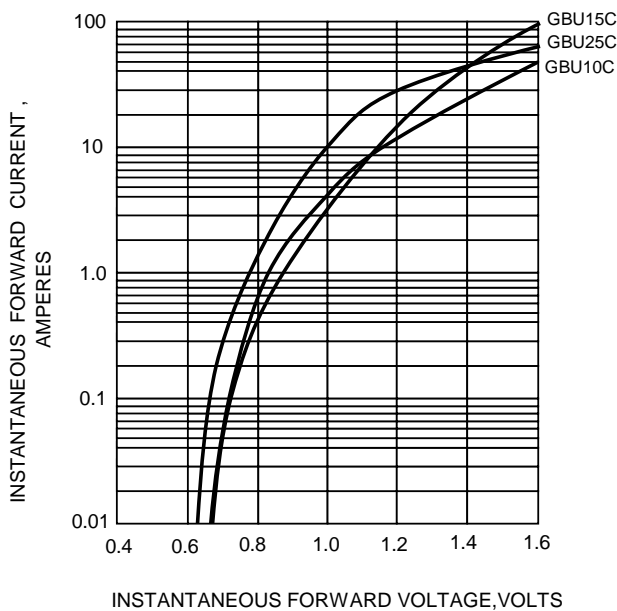


FIG.4-TYPICAL REVERSE CHARACTERISTICS

