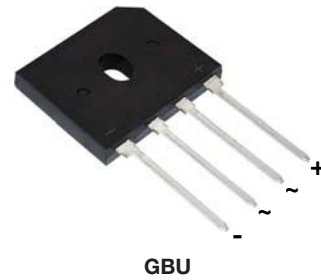


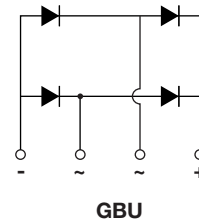
### Features

- Ideal for printed circuit boards
- High case dielectric strength
- High temperature soldering:  
260°C/5 seconds at terminals



### Mechanical Data

- **Case:** GBU  
Molding compound meets  
UL 94 V-0 flammability rating
- **Terminals:** Solder plated, solderable per  
MIL-STD-750, Method 2026
- **Polarity:** As marked on body
- **Mounting Position:** Any



### Maximum Ratings & Thermal Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

Items	Symbol	GBU 15005	GBU 1501	GBU 1502	GBU 1504	GBU 1506	GBU 1508	GBU 15010	Unit
Maximum repetitive 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 output current at T <sub>C</sub> =40°C (with heatsink)	I <sub>F(AV)</sub>	15							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	220							A
Typical thermal resistance	R <sub>θJC</sub> <sup>(1)</sup>	4.0							°C/W
Operating junction and storage temperature range	T <sub>J</sub> T <sub>STG</sub>	-55 to +150							°C

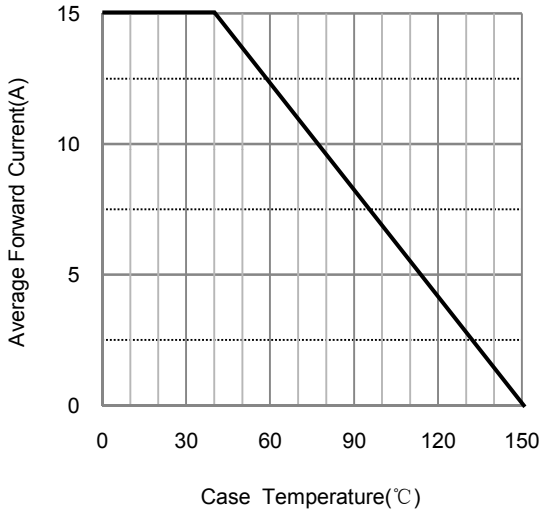
Note: 1. Units case mounted on aluminum plate heatsink. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screws.

### Electrical Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

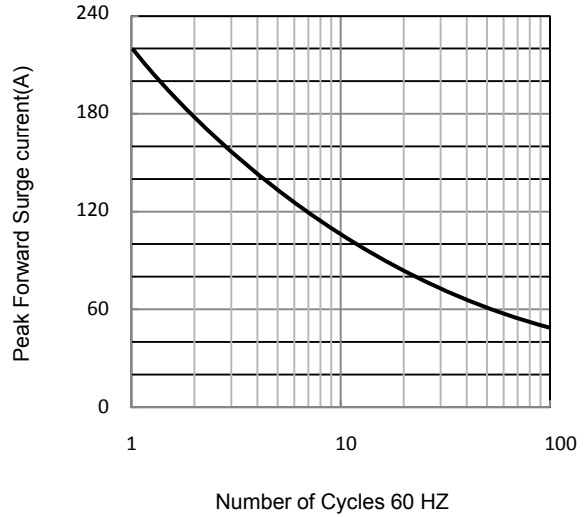
Items	Symbol	GBU 15005	GBU 1501	GBU 1502	GBU 1504	GBU 1506	GBU 1508	GBU 15010	Unit
Maximum instantaneous forward voltage drop per leg at 7.5A	V <sub>F</sub>	1.1							V
Maximum DC reverse current at rated DC blocking voltage per element T <sub>A</sub> = 25°C T <sub>A</sub> = 125°C	I <sub>R</sub>	10 500							μA

### Characteristic Curves ( $T_A=25\text{ }^\circ\text{C}$ unless otherwise noted)

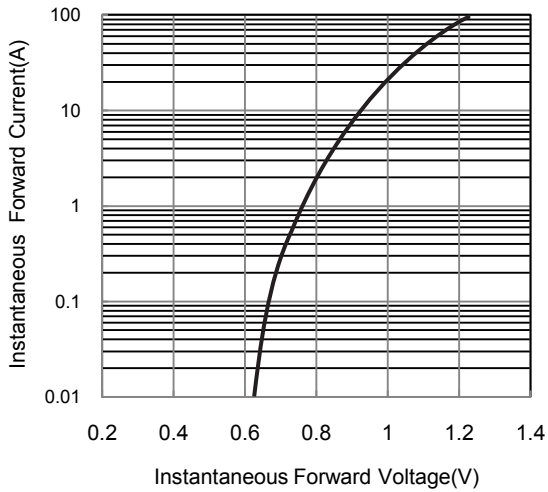
**Fig.1 Forward Current Derating Curve**



**Fig.2 Maximum Non-Repetitive Peak Forward Surge Current**



**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Reverse Leakage Characteristics**

