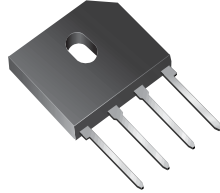


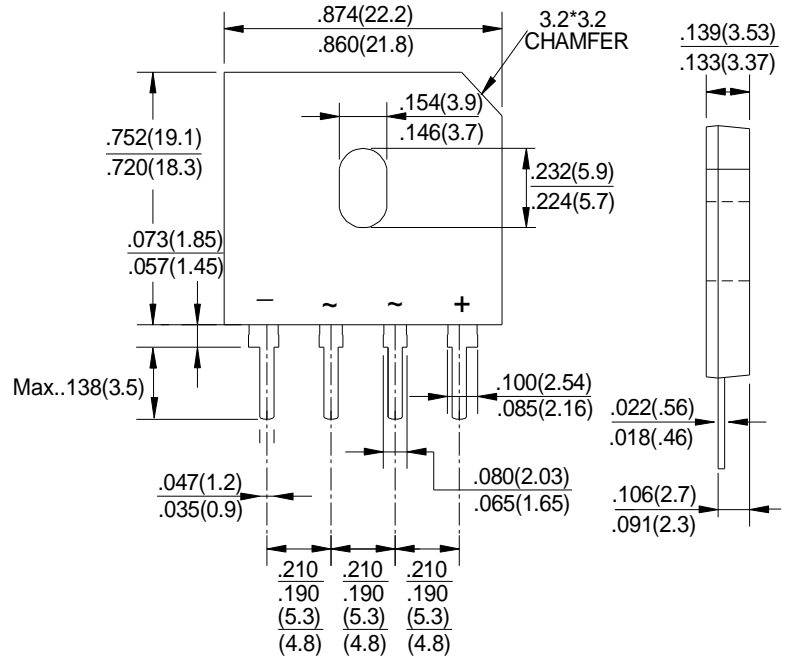
RoHS Compliant Product  
A suffix of "-C" specifies halogen-free.

LC-35



**FEATURES**

- Glass passivated die construction
- Ideal for printed circuit board
- High case dielectric strength of 1500V<sub>RMS</sub>
- Plastic material has underwrites laboratory flammability classification 94V-0
- Low reverse leakage current
- Surge overload rating to 200A peak
- Polarity: marked on body
- Mounting position: Any



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating 25 °C ambient temperature unless otherwise specified.  
Resistive or inductive load, 60Hz,  
For capacitive load, derate current by 20%.

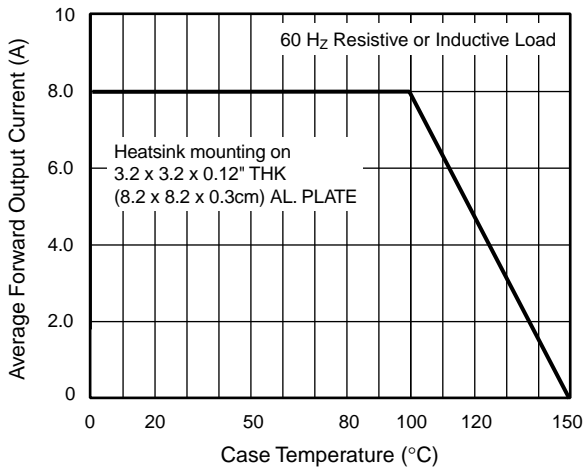
TYPE NUMBER	SYMBOL	GBU8A	GBU8B	GBU8D	GBU8G	GBU8J	GBU8K	GBU8M	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_C=100$ (with heatsink Note2) (without heatsink)	$I_{(AV)}$	8.0							A
Peak Forward Surge Current, 8.3 ms single half Sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	200							A
Maximum Forward Voltage at 2.0A	$V_F$	1.0							V
Maximum DC Reverse Current $T_a=25$ °C at Rated DC Blocking Voltage $T_a=125$ °C	$I_R$	500							$\mu A$
I <sup>2</sup> t Rating for fusing (t<8.3ms)	I <sup>2</sup> t	166							A <sup>2</sup> S
Typical Junction Capacitance per element (Note1)	$C_J$	130							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	2.2							°C / W
Operating Temperature Range	$T_J$	- 55 ~ + 150							°C
Storage Temperature Range	$T_{STG}$	- 55 ~ + 150							°C

NOTES:

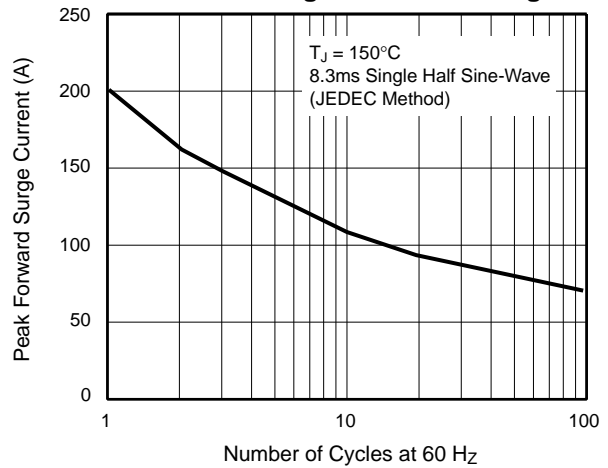
1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
2. Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.

● **RATING AND CHARACTERISTIC CURVES**

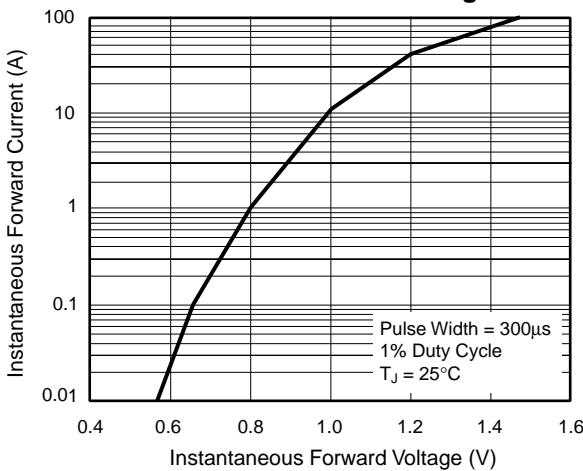
**Fig. 1 – Derating Curve Output Rectified Current**



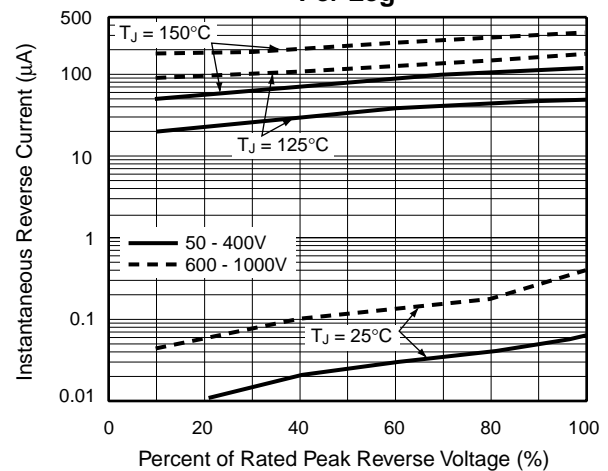
**Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current Per Leg**



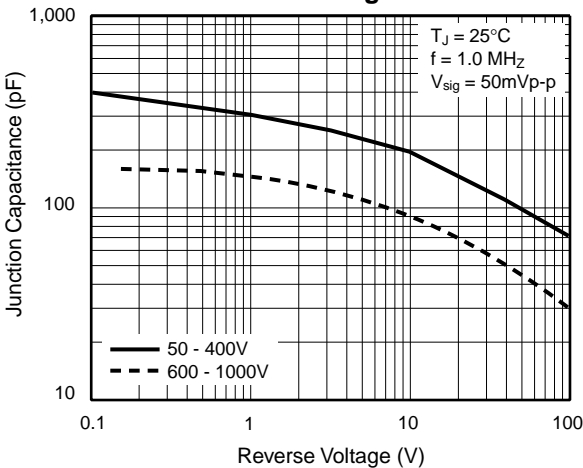
**Fig. 3 – Typical Forward Characteristics Per Leg**



**Fig. 4 – Typical Reverse Characteristics Per Leg**



**Fig. 5 – Typical Junction Capacitance Per Leg**



**Fig. 6 – Typical Transient Thermal Impedance Per Leg**

