

GBU15A~GBU15M

BRIDGE RECTIFIERS

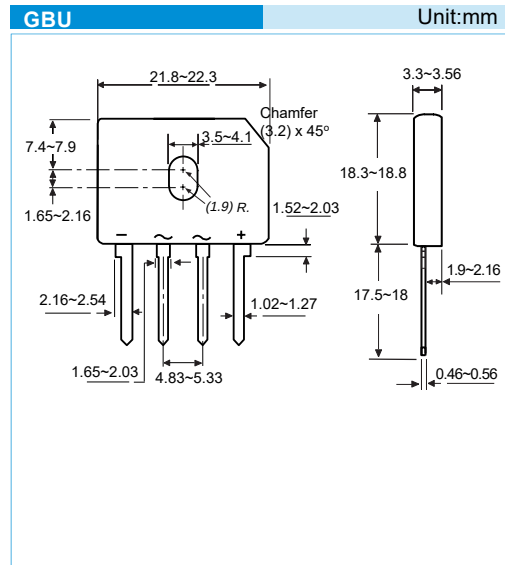
VOLTAGE 50 to 1000 Volt **CURRENT** 15 Ampere

FEATURES

- Glass passivated chip junction
- High surge current capability
- High Current Capability
- Ideal for Printed Circuit Boards
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

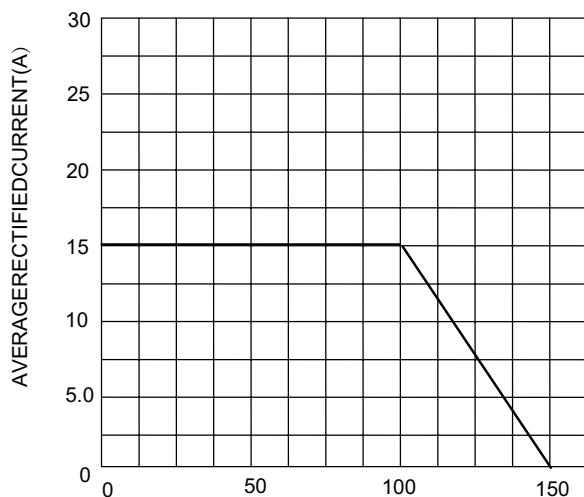
PARAMETER	SYMBOL	GBU15A	GBU15B	GBU15D	GBU15G	GBU15J	GBU15K	GBU15M	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current (see FIG.1)	$I_{F(AV)}$	15							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	240							A
Maximum Forward Voltage at 7.5 A	V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	I_R	5 500							μA
Thermal Resistance(Note1)	$R_{\theta JC}$	2.2							$^\circ\text{C} / \text{W}$
Typical Junction Capacitance(Note2)	C_J	70							pF
Operating Junction Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

NOTES:

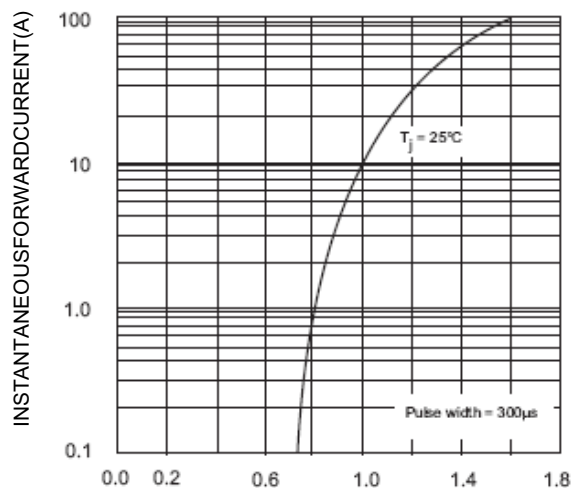
1. Device mounted on 4 x 6 x 0.25" Al-plate heatsink.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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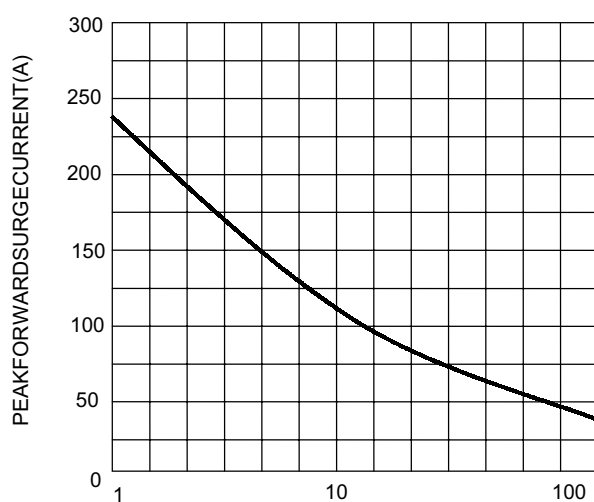
RATING AND CHARACTERISTIC CURVES



T_C , CASE TEMPERATURE ($^{\circ}\text{C}$)
Fig. 1 Forward Current Derating Curve



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics



NUMBER OF CYCLES AT 60 Hz
Fig. 3 Maximum Non-Repetitive Surge Current

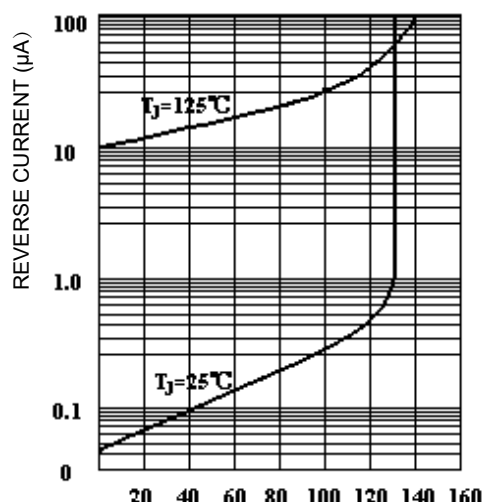
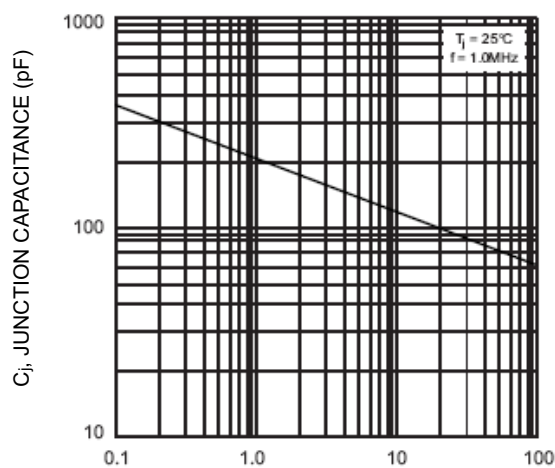


Fig. 4 Reverse Characteristics



V_R , REVERSE VOLTAGE (V)
Fig. 5 Typical Junction Capacitance

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ORDER INFORMATION

- Packing information

Part Number	Case	DELIVERY MODE	QUANTITY
GBU15A~GBU15M	GBU	BULK	2000/Ctn