

GBU10A~GBU10M

BRIDGE RECTIFIERS

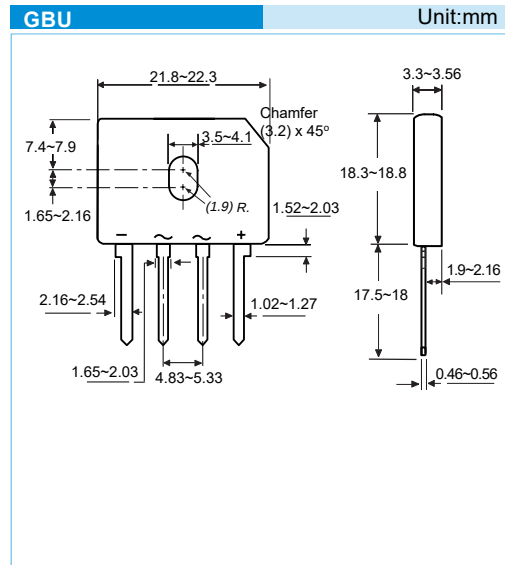
VOLTAGE 50 to 1000 Volt **CURRENT** 10 Ampere

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	GBU10A	GBU10B	GBU10D	GBU10G	GBU10J	GBU10K	GBU10M	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)}	10							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	240							A
Maximum For w ard Volt age at 5.0 A	V _F	1.0							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5							μA
T _J = 25 °C T _J = 125 °C		500							
Thermal Resistance(Note1)	R _{θJC}	2.0							°C / W
Typical Junction Capacitancee(Note2)	C _J	211				94			pF
Operating Junction Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°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

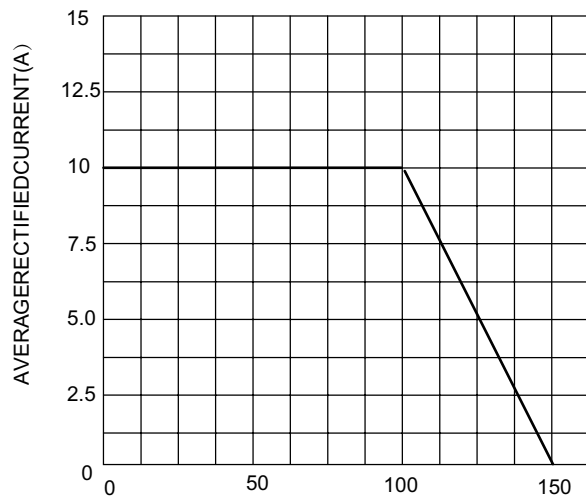


Fig. 1 Forward Current Derating Curve

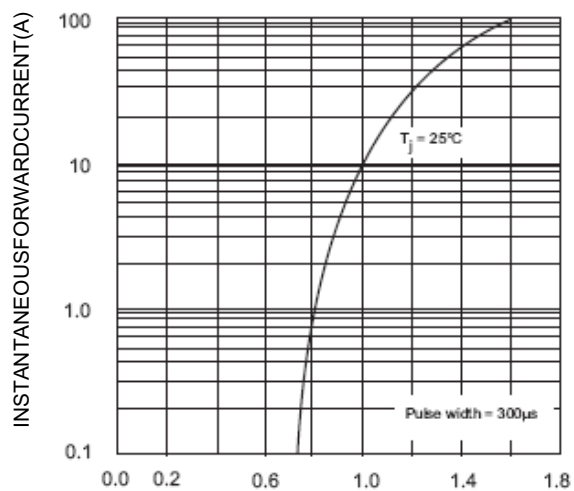


Fig. 2 Typical Forward Characteristics

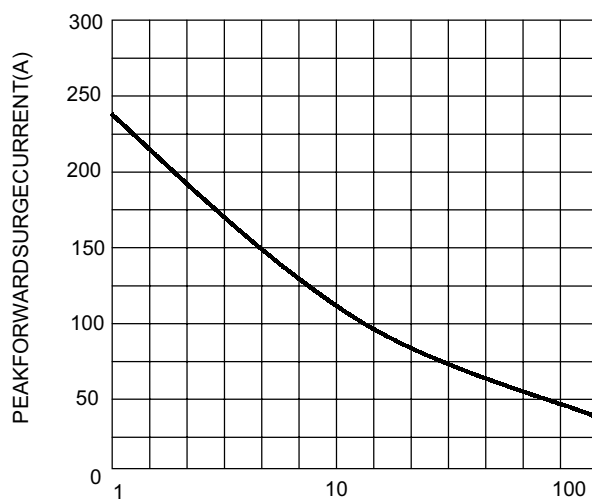


Fig. 3 Maximum Non-Repetitive Surge Current

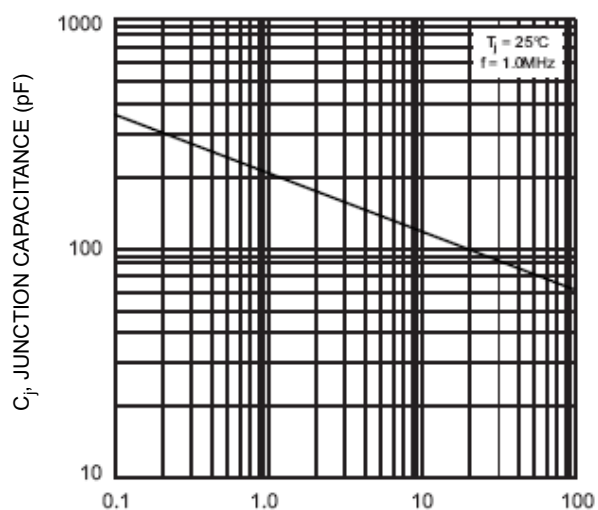


Fig. 4 Typical Junction Capacitance

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ORDER INFORMATION

- Packing information

Part Number	Case	DELIVERY MODE	QUANTITY
GBU10A~GBU10M	GBU	BULK	2000/Ctn