



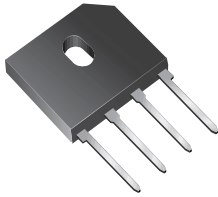
Elektronische Bauelemente

GBU15005 THRU GBU1510

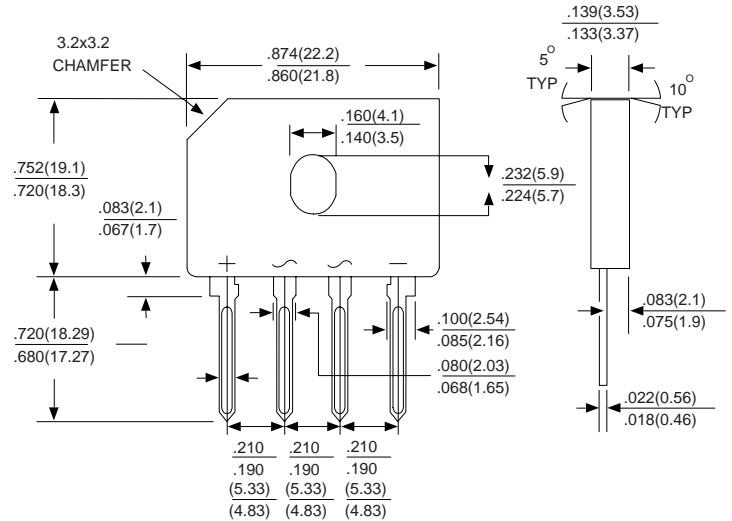
VOLTAGE 50V~1000V

15.0 AMP Glass Passivated Bridge Rectifiers

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



GBU



Dimensions in inches and (millimeters)

FEATURES

- * Surge Overload Rating -220~350 Amperes Peak
- * Ideal For Printed Circuit Board
- * Reliable Low Cost Construction Utilizing Molded Plastic Technique
- * Plastic Material Has Underwrites Laboratory Flammability Classification 94V-0
- * Mounting Position: Any

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%.

CHARACTERISTICS	SYMBOL	GBU 15005	GBU 1501	GBU 1502	GBU 1504	GBU 1506	GBU 1508	GBU 1510	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	30	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°C (with heatsink Note 2)	I _(AV)	15							A
Rectified Current @ T _c =100°C (without heatsink)		3.2							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	240							A
Maximum Forward Voltage at 5.0/7.5/12.5A DC	V _F	1.1							V
Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =125°C	I _R	10.0 500							uA
I ² t Rating for Fusing (t<8.3ms)	I ² t	200							A ² s
Typical Junction Capacitance Per Element (Note1)	C _J	70							pF
Typical Thermal Resistance (Note2)	R _{θJC}	2.2							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
2. Device mounted on 100mm x 100mm x 1.6mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

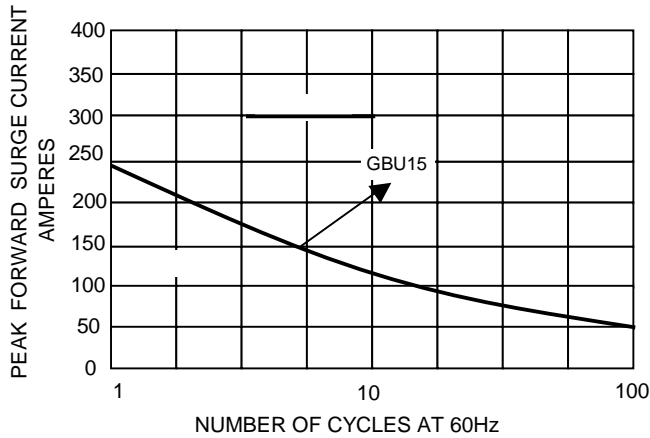


FIG.2- DERATING CURVE
OUTPUT RECTIFIED CURRENT

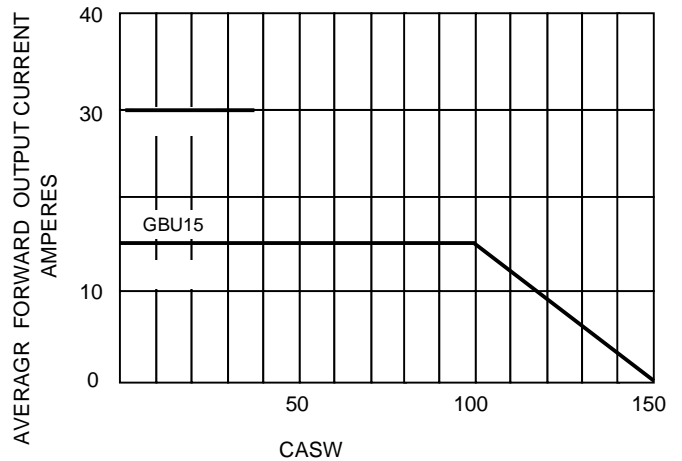


FIG.3-TYPICAL FORWARD CHARACTERISTICS

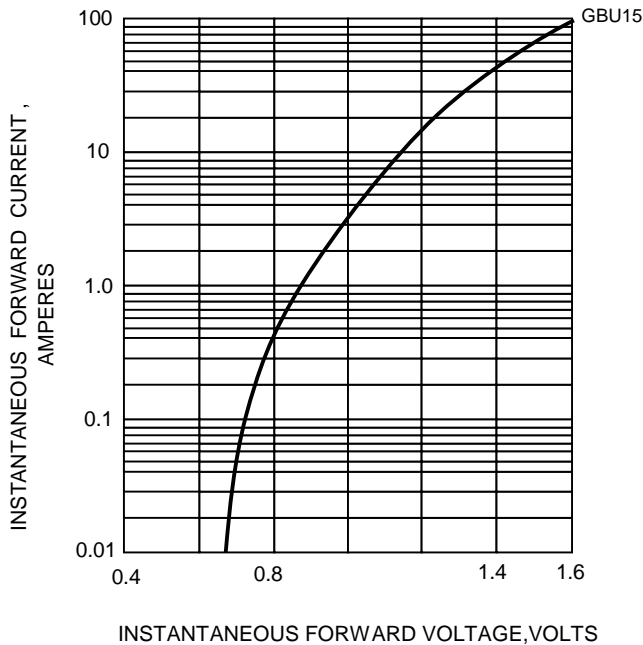


FIG.4-TYPICAL REVERSE CHARACTERISTICS

