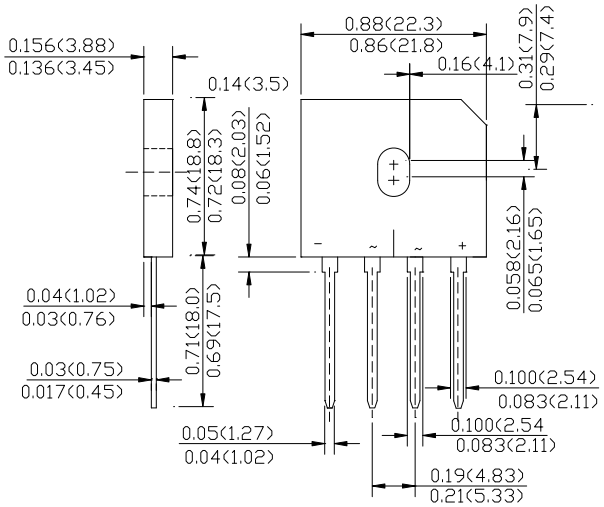
GLASS PASSIVATED BRIDGE RECTIFIERS
GBU 20A SERIES 50 to 1000 V

Central Plate Electronics Co., Ltd.

FEATURES

- Surge overload rating-150 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing Molded plastic technique
- Plastic material has Underwriters Laboratory Flammability classification 94V-O
- Mounting Position: Any

GBU



Dimensions in inches and Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified. Single phase , half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%.

CHARACTERISTICS	Symbol	GBU 20005 20A	GBU 2001 20B	GBU 2002 20D	GBU 2004 20G	GBU 2006 20J	GBU 2008 20K	GBU 2010 20M	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward (with heatsink Note2)	$I_{(AV)}$	20.0							Amp
Peak Forward Surge Current,8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	250							Amp
Maximum Forward Voltage at 10A DC	V_F	1.0							Volts
Maximum DC Reverse Current at rated @ T_J=25℃ DC Blocking Voltage Per Element @ T_J=125℃	I_R	5 500							uAmp
I^2t Rating for fusing (t<8.3ms)	I^2T	200							A^2S
Typical Junction Capacitance (Note 1)	C_J	70							pF
Typical Thermal Resistance (Note 2)	$R_{\Theta JC}$	2.2							℃/W
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

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

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RATINGS AND CHARACTERISTIC CURVES(GBU 20A SERIES)

FIG.1 – DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

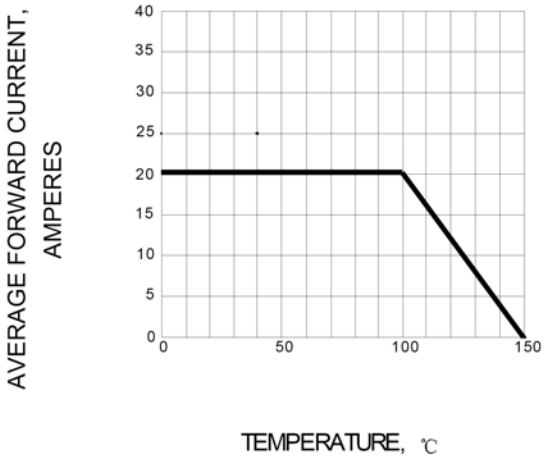

FIG.2 – TYPICAL FORWARD CHARACTERISTIC

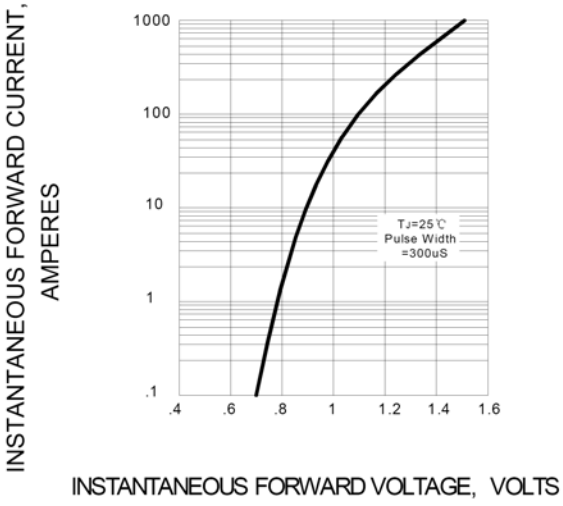

FIG.3 – MAXIMUM NON-REPETITIVE PEAK FORWARD DURGE CURRENT

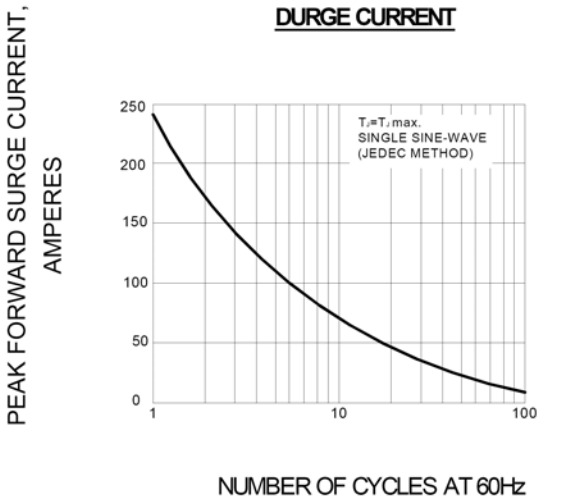

FIG.4 – TYPICAL REVERSE CHARACTERISTIC

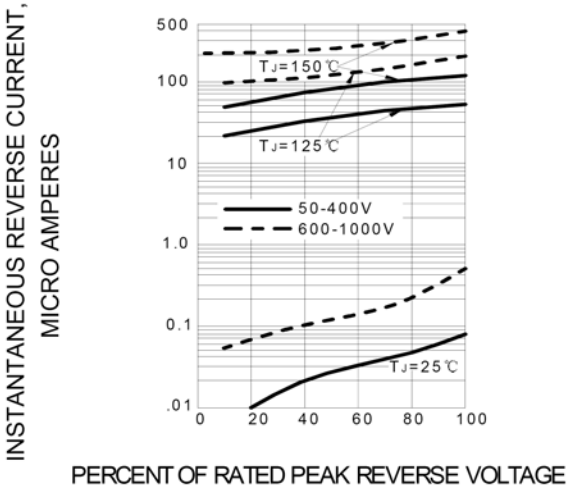

FIG.5 – TYPICAL JUNCTION CAPACITANCE PER LEG

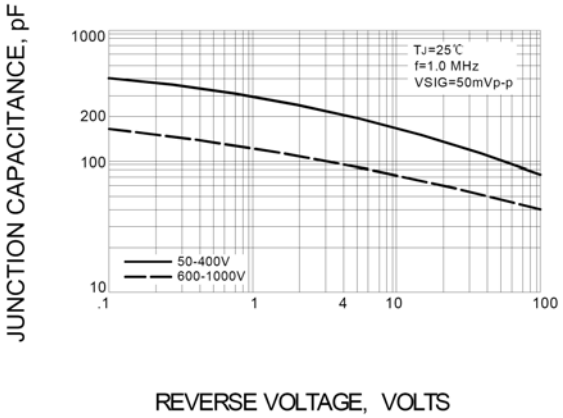

FIG.6 – TYPICAL TRANSIENT THERMAL IMPEDANCE