

**GLASS PASSIVATED BRIDGE RECTIFIERS**

REVERSE VOLTAGE - 400 to 1000 Volts  
FORWARD CURRENT - 10 Amperes

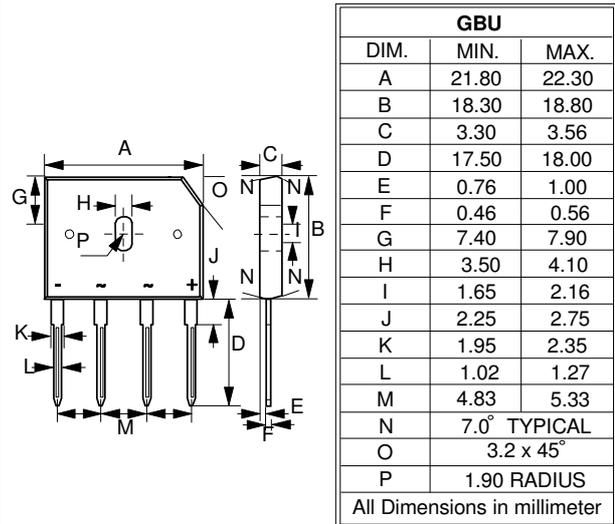
**FEATURES**

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0
- UL Recognition File # E95060

**MECHANICAL DATA**

- Polarity : As marked on Body
- Weight : 0.15 ounces, 4.0 grams
- Mounting position : Any

**GBU**



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	GBU 1004	GBU 1006	GBU 1008	GBU 1010	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	400	600	800	1000	V
Maximum DC Blocking Voltage	VDC	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @Tc=100°C (without heatsink)	I(AV)	10 3.2				A
Peak Forward Surge Current @TJ =25°C 8.3ms single half sine-wave @TJ =125°C	IFSM	240 220				A
Peak Forward Surge Current @TJ =25°C 1.0ms single half sine-wave @TJ =125°C	IFSM	480 440				A
Maximum forward Voltage at 5.0A DC Maximum forward Voltage at 10A DC	VF	1.0 1.2				V
Maximum DC Reverse Current @TJ =25°C at Rated DC Blocking Voltage @TJ =125°C	IR	5.0 500				uA
I <sup>2</sup> t Rating for fusing (3ms ≤ t ≤ 8.3m)	I <sup>2</sup> t	200				A <sup>2</sup> S
Typical Junction Capacitance per element (Note 1)	CJ	60				pF
Typical Thermal Resistance (Note 2)	RθJC	2.0				°C/W
Typical Thermal Resistance (without heatsink)	RθJC	5.6				°C/W
Mounting Torque (Recommended torque: 0.5 N.m)	TOR	0.8				N.m
Operating Temperature Range	TJ	-55 to +150				°C
Storage Temperature Range	TSTG	-55 to +150				°C

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
2.Device mounted on 150mm x 150mm x 1.6mm Cu Plate Heatsink.

FIG.1 - FORWARD CURRENT DERATING CURVE

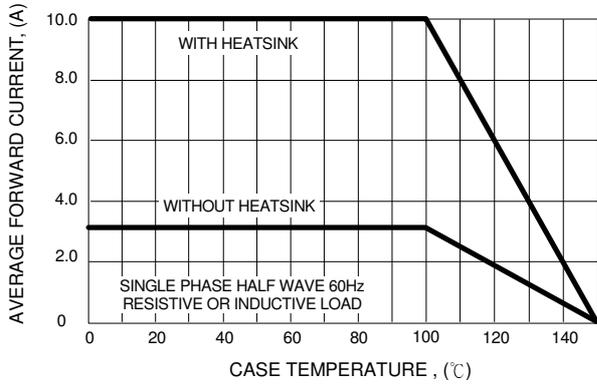


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

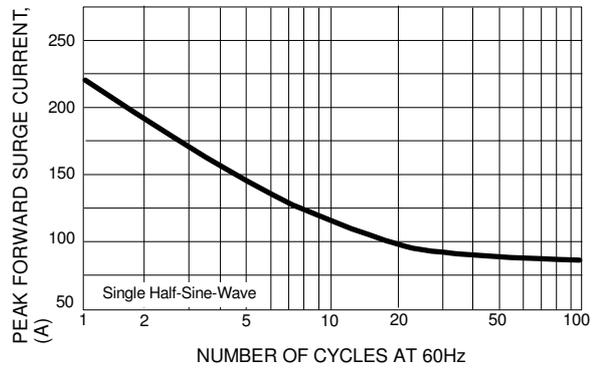


FIG.3 - TYPICAL JUNCTION CAPACITANCE

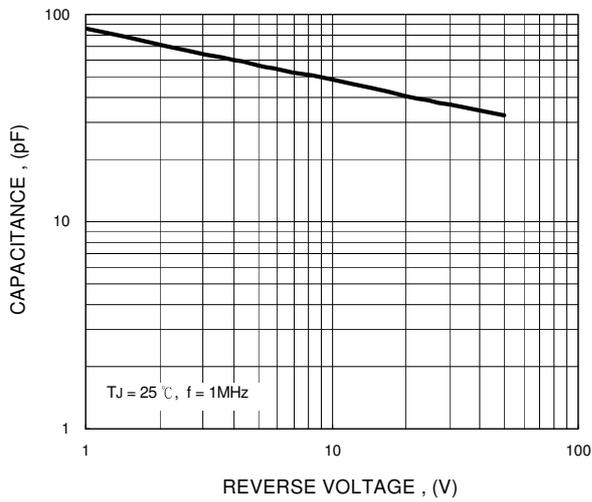


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

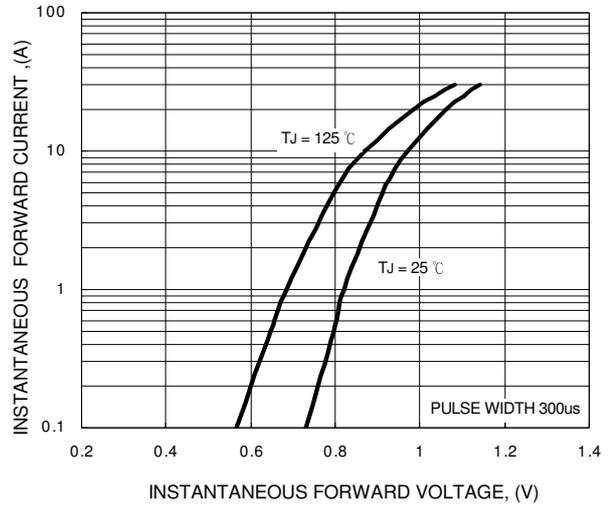


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

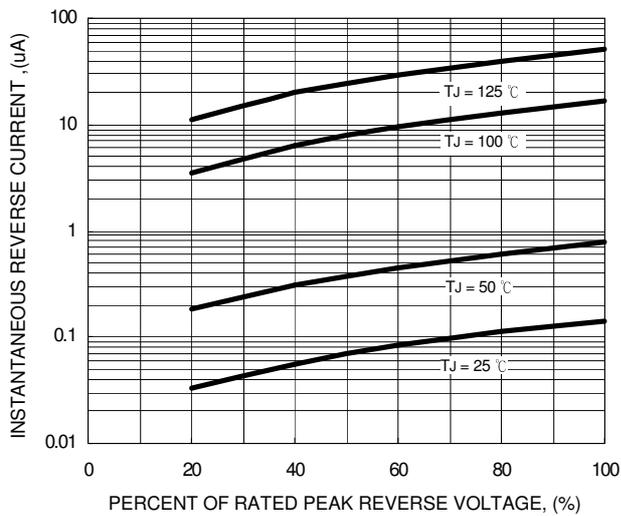
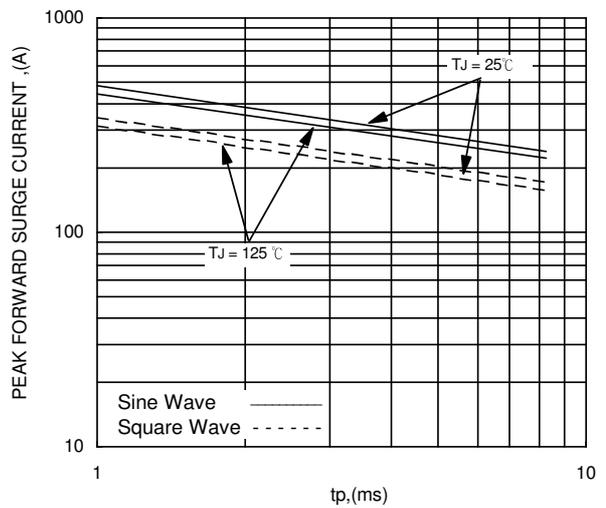


FIG.6 - NON-REPETITIVE SURGE CURRENT



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