



GBJ10005 THRU GBJ1010

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE

50 to 1000 Volts

CURRENT

10.0 Amperes

GBJ

Unit : inch (mm)

FEATURES

- Plastic material used carries Underwriters Laboratory recognition 94V-0
- Low leakage
- Surge overload rating-- 30 amperes peak
- Ideal for printed circuit board
- Exceeds environmental standards of MIL-S-19500/228
- Lead free in comply with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

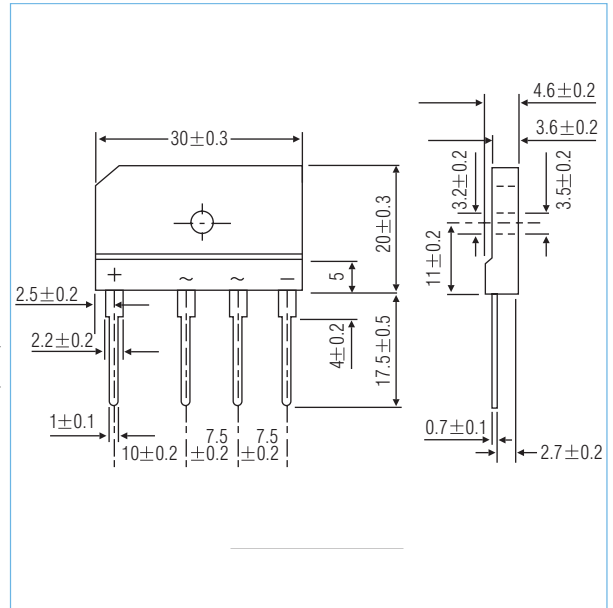
Case: Reliable low cost construction utilizing molded plastic technique results in inexpensive product

Terminals: Lead solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols molded or marking on body

Mounting Position: Any

Weight: 0.02 ounce, 0.4 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings & Electrical Characteristics Ratings at 25 ambient temperature unless otherwise specified

	SYMBOLS	GBJ 10005	GBJ 1001	GBJ 1002	GBJ 1004	GBJ 1006	GBJ 1008	GBJ 1010	UNITS
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
最大均方根电压 Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
最大直流阻断电压 Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	Volts
最大正向平均整流电流 Maximum average forward output rectified	I(AV)	10.0							Amps
正向峰值浪涌电流 8.3ms 单一正弦半波 Peak forward surge current 8.3ms single half sine-wave	IFSM	220							Amps
最大正向电压降 Maximum forward voltage	VF	1.05							Volts
最大反向漏电流 Maximum reverse voltage	IR	5.0 500							μ A
典型结电容 Type junction capacitance VR=4.0V f=1.0MHz	CJ	14							pF
工作温度和存储温度 Operating junction and storage temperature range	TJ, TSTG	-55 to + 150							°C

NOTES:

1. Unit case mounted on Al plate heatsink.
2. Units mounted on P.C.B with 0.5"0.5"(12*12mm) copper pads an 0.375" (9.5mm) lead length
3. Recommended mounting position is to boll down on heatsink with silicon thermal compound for maximum heat transfer with #6 screws

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RATING AND CHARACTERISTIC CURVES

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

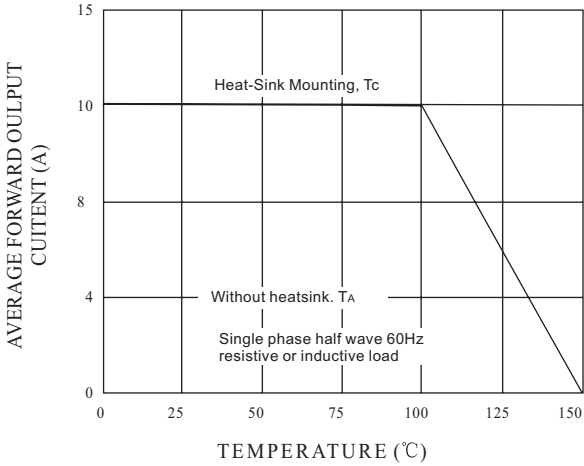


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

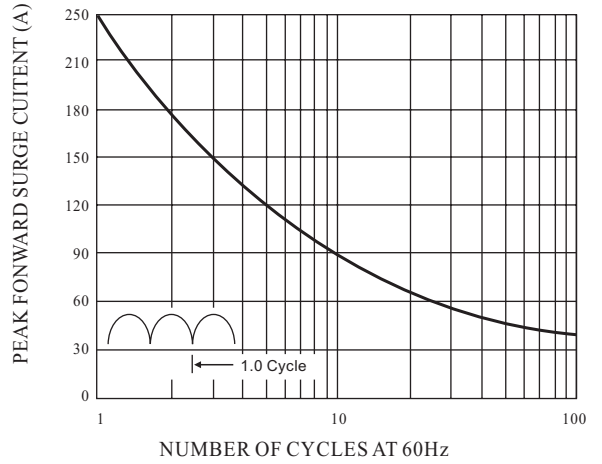


FIG.3-TYPICAL FORWARD CHARACTERISTICS PER LEG

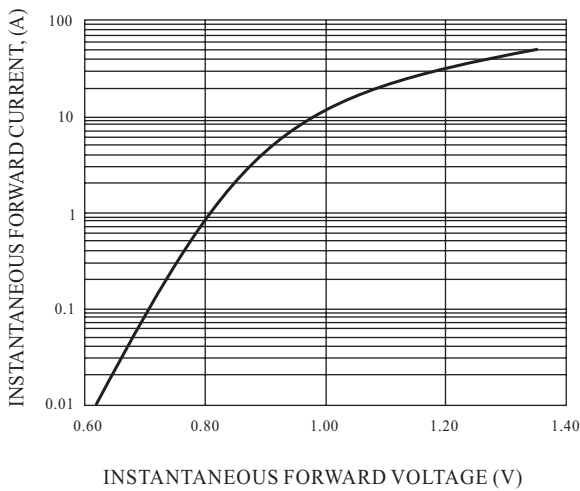


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER LEG

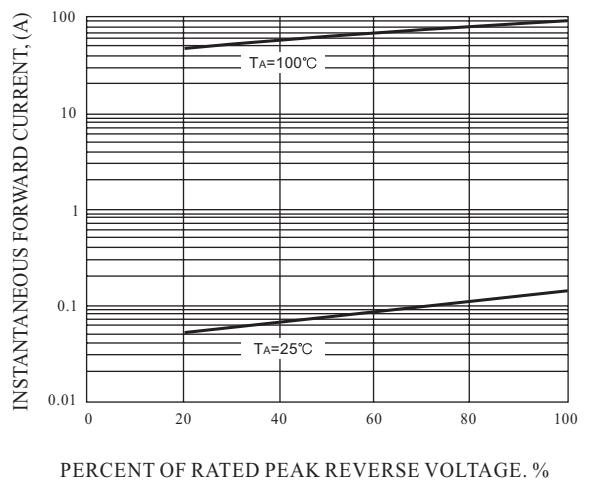


FIG.5-TYPICAL JUNCTION CHARACTERISTICS PER LEG

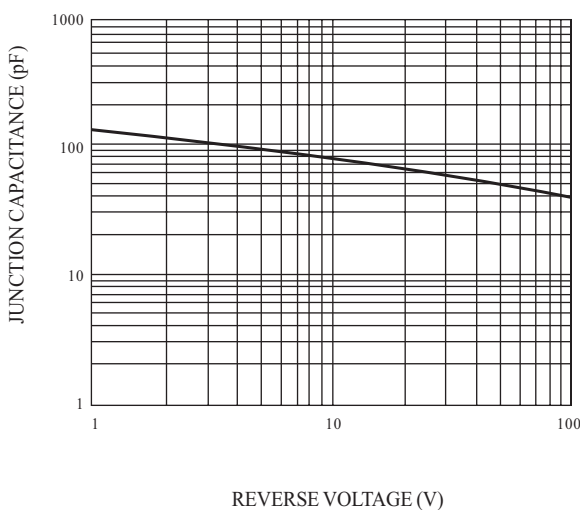


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

