



GBJ10A THRU GBJ10M

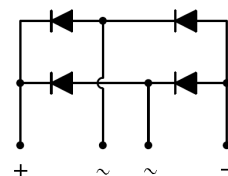
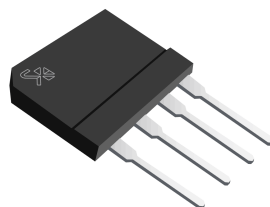
GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 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
- Plastic material has U/L
- The flammability classification 94V-0



GBJ

MECHANICAL DATA

- Polarity : Symbols molded on body
- Weight : 0.24 ounces, 6.79 grams
- Mounting position : Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	Symbols	GBJ10A	GBJ10B	GBJ10D	GBJ10G	GBJ10J	GBJ10K	GBJ10M	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 (with heatsink Note 2)	I_{AV}	10							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	175							A
I^2t Rating for Fusing	I^2t	127							A ² S
Maximum forward Voltage at 5.0A DC	V_F	1.0							V
Maximum DC Reverse Current at rated Blocking Voltage @T _j =25°C @T _j =125°C	I_R	5 500							μA
Typical Junction Capacitance ⁽¹⁾	C_j	50							pF
Typical Thermal Resistance ⁽²⁾	R _{thJA} R _{thJC}	35 2.5							°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150							°C

(1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

(2) .Device mounted on 150mm*150mm*1.6mm Cu Plate Heat sink



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Fig.1 FORWARD CURRENT DERATING CURVE

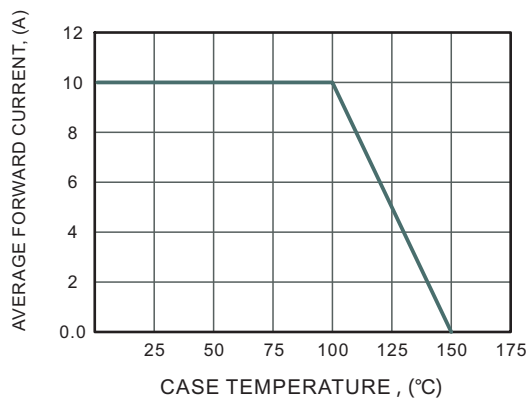


Fig.2 Typical Reverse Characteristics

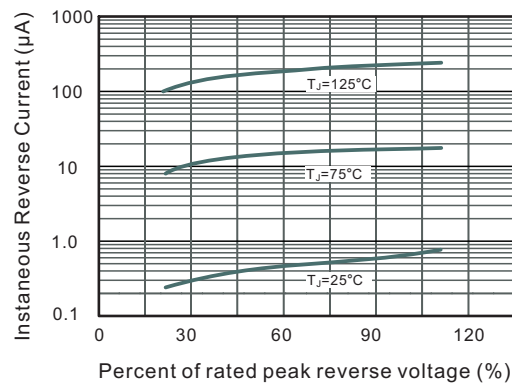


Fig.3 Typical Forward Characteristics

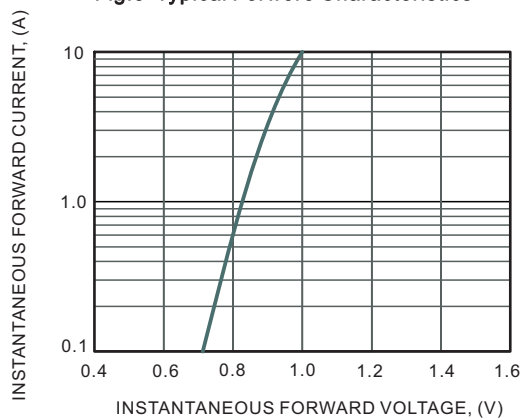


Fig.4 Typical Junction Capacitance

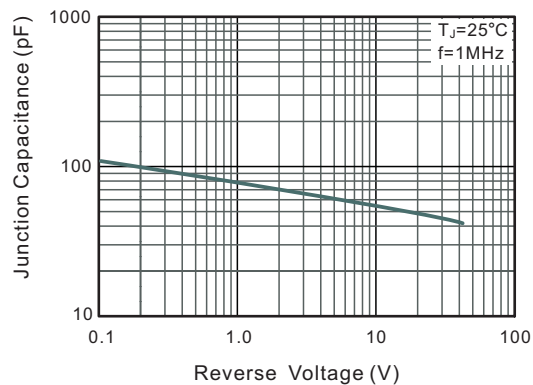
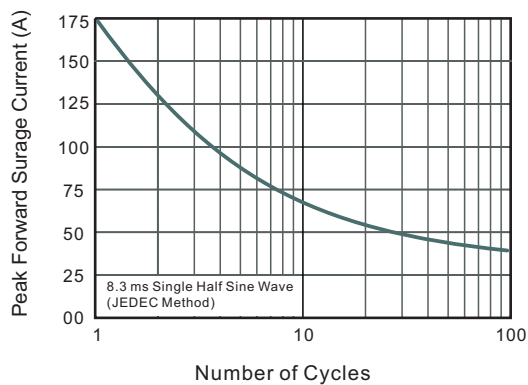


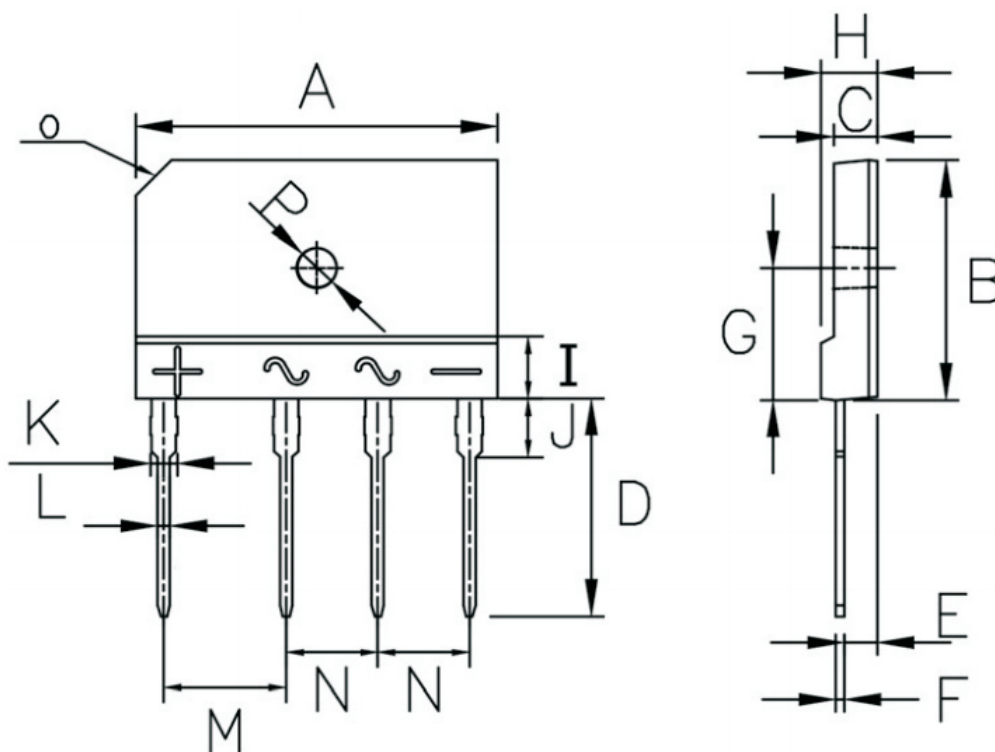
Fig.5 Maximum Non-Repetitive Peak Forward Surge Current





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GBJ Package Outline Dimensions



GBJ mechanical data

UNIT		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
mm	max	30.30	20.30	3.80	18.00	2.90	0.80	11.2	4.80	5.80	4.20	2.40	1.15	10.20	7.70	C3.0	φ3.6
	min	29.70	19.70	3.40	17.00	2.50	0.55	10.8	4.40	4.80	3.80	2.00	0.90	9.80	7.30		φ3.0
mil	max	1193	799	150	709	114	31	441	189	228	165	94	45	402	303	C118	φ142
	min	1169	776	134	669	98	22	425	173	189	150	79	35	386	287		φ118