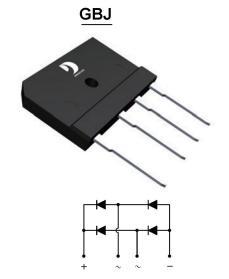
# **GBJ15005 thru GBJ1510**

## GLASS PASSIVATED BRIDGE RECTIFIERS REVERSE VOLTAGE

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 15.0 Amperes

### **FEATURES**

- Polarity: As marked on body
- 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
- Mounting postition: Any
- Weight: 0.24 ounces, 6.79 grams



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

SYMBOL	GBJ 15005	GBJ 1501	GBJ 1502	GBJ 1504	GBJ 1506	GBJ 1508	GBJ 1510	UNIT	
VRRM	50	100	200	400	600	800	1000	V	
VRMS	35	70	140	280	420	560	700	V	
VDC	50	100	200	400	600	800	1000	V	
I(AV)	15								
IFSM	200								
VF	1.0								
lR	5.0 500								
I <sup>2</sup> t	166								
CJ	66								
Rеjc	2.3								
TJ	-55 to +150								
Тsтg	-55 to +150								
	VRRM VRMS VDC I(AV) IFSM VF IR I <sup>2</sup> t CJ Rejc TJ	VRRM   50   VRMS   35   VDC   50   I(AV)   IFSM   VF   IR   I <sup>2</sup> t   CJ   ReJC   TJ   TSOUS	VRRM   50   100   VRMS   35   70   VDC   50   100   I(AV)   IFSM   VF   IR   I <sup>2</sup> t   CJ   ReJC   TJ   TOO   TOO   TOO   TJ   TJ   TOO   TOO	VRRM   50   100   200     VRMS   35   70   140     VDC   50   100   200     I(AV)     IFSM   VF     IR   I <sup>2</sup> t   CJ   ReJC   TJ	VRRM   50   100   200   400   VRMS   35   70   140   280   200   400   VDC   50   100   200   400   I(AV)   15   IFSM   200   VF   1.0   IR   5.0   500   I²t   166   CJ   66   ReJC   2.3   TJ   -55 to +150   TSU   TSU	VRRM   50   100   200   400   600     VRMS   35   70   140   280   420     VDC   50   100   200   400   600     I(AV)   15     IFSM   200     VF   1.0     IR   5.0     I <sup>2</sup> t   166     CJ   66     ReJC   2.3     TJ   -55 to +150	VRRM   50   100   200   400   600   800     VRMS   35   70   140   280   420   560     VDC   50   100   200   400   600   800     I(AV)   15     IFSM   200     VF   1.0     IR   5.0     500   12t   166     CJ   66     ReJC   2.3     TJ   -55 to +150	VRRM   50   100   200   400   600   800   1000     VRMS   35   70   140   280   420   560   700     VDC   50   100   200   400   600   800   1000     I(AV)   15     IFSM   200     VF   1.0     IR   5.0     500   166     CJ   66     Rejic   2.3     TJ   -55 to +150	

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

 $2. Device \ mounted \ on \ 150 mm*150 mm*1.6 mm \ Cu \ Plate \ Heatsink.$ 

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FIG.1-FORWARD CURRENT DERATING CURVE

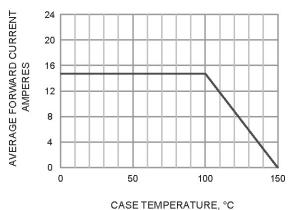


FIG.2-MAXIMUM FOWARD SURGE CURRENT

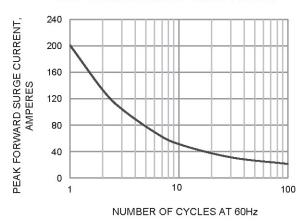


FIG.3-TYPICAL JUNCTION CAPACITANCE

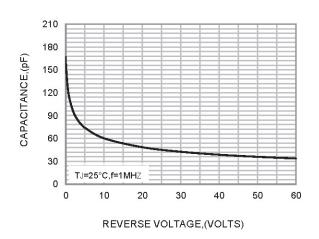


FIG.4-TYPICAL FORWARD CHARACTERISTICS

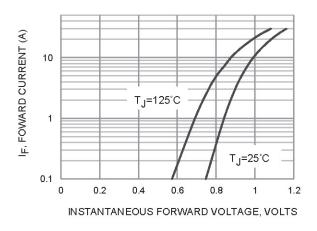
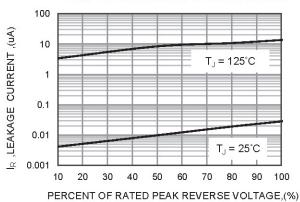


FIG.5-TYPICAL REVERSE CHARACTERISTICS

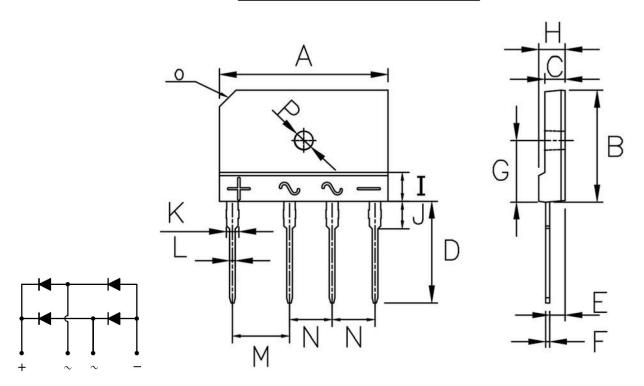


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## **GBJ15005 thru GBJ1510**

### GBJ Package Outline Dimensions



GBJ mechanical data

UNIT		Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р
mm	max	30.30	20.30	3.80	18.00	2.90	0.80	7.90	4.80	5.80	4.20	2.40	1.15	10.20	7.70	C3.0	ф3.6
	min	29.70	19.70	3.40	17.00	2.50	0.55	7.40	4.40	4.80	3.80	2.00	0.90	9.80	7.30		φ3.0
mil	max	1193	799	150	709	114	31	311	189	228	165	94	45	402	303	C118	φ142
mil	min	1169	776	134	669	98	22	291	173	189	150	79	35	386	287		φ118

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