



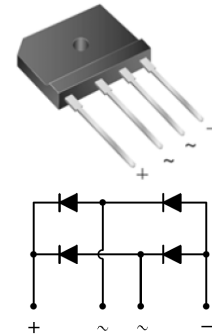
FEATURES

- 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 position: Any
- Weight: 0.24 ounces , 6.79 grams

REVERSE VOLTAGE - **50 to 1000** Volts

FORWARD CURRENT - **30.0** Amperes

GBJ



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

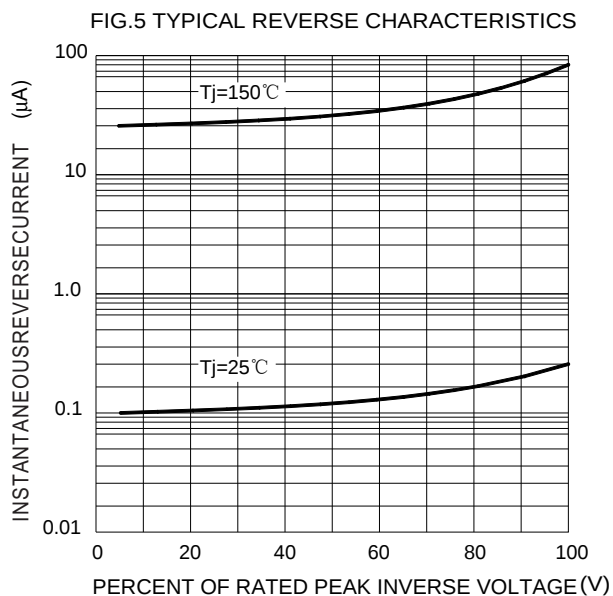
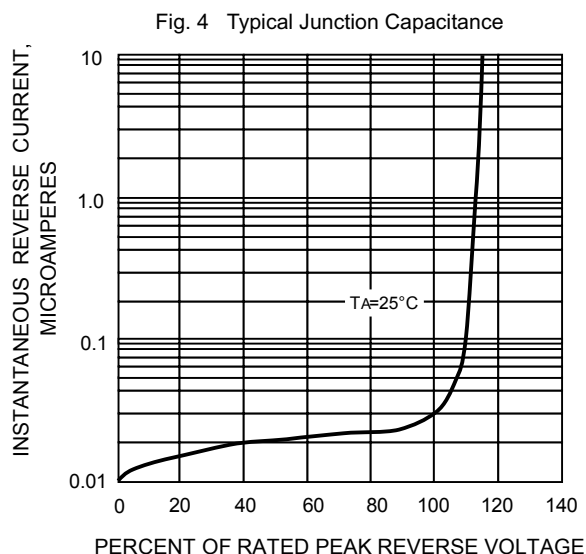
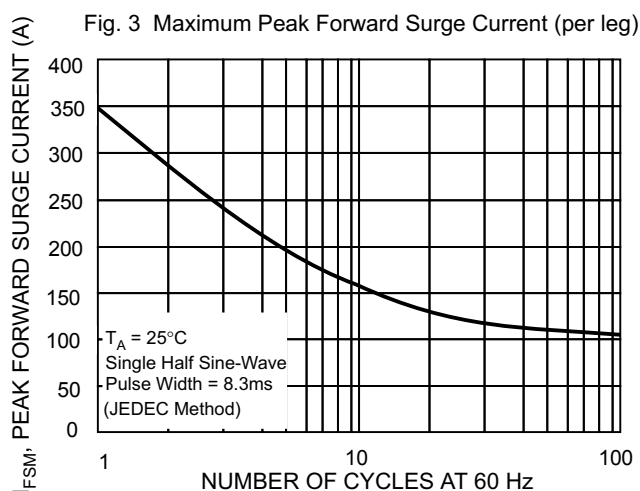
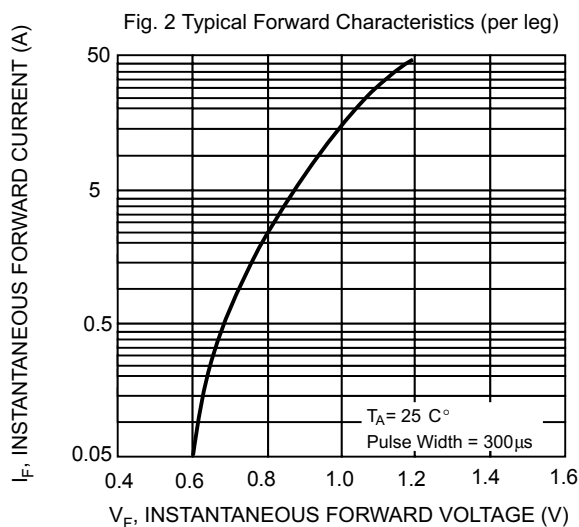
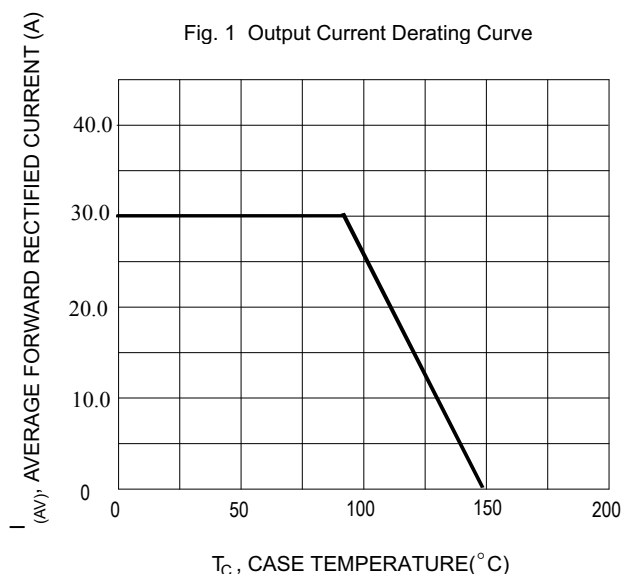
Ratings at 25°C ambient temperature unless otherwise specified.

NUMBER	SYMBOL	GBJ 30005	GBJ 3001	GBJ 3002	GBJ 3004	GBJ 3006	GBJ 3008	GBJ 3010	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V _{RWM}								
DC Blocking Voltage	V _{DC}								
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 2)@T _C =90℃	IF(AV)	30.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	350							A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	508.375							A ² s
Forward Voltage per element @IF=15A	V _{FM}	1.05							V
Peak Reverse Current @T _A =25℃ At Rated DC Blocking Voltage @T _A =125℃	I _R	5.0 500							uA
Typical Junction Capacitance per leg	C _J	75							pF
Between junction and ambient, Without heatsink	RθJA	22							℃/W
Between junction and case, With heatsink	RθJC	0.8							
Operating and Storage Temperature Range	T _J ,T _{STG}	-55to+150							℃

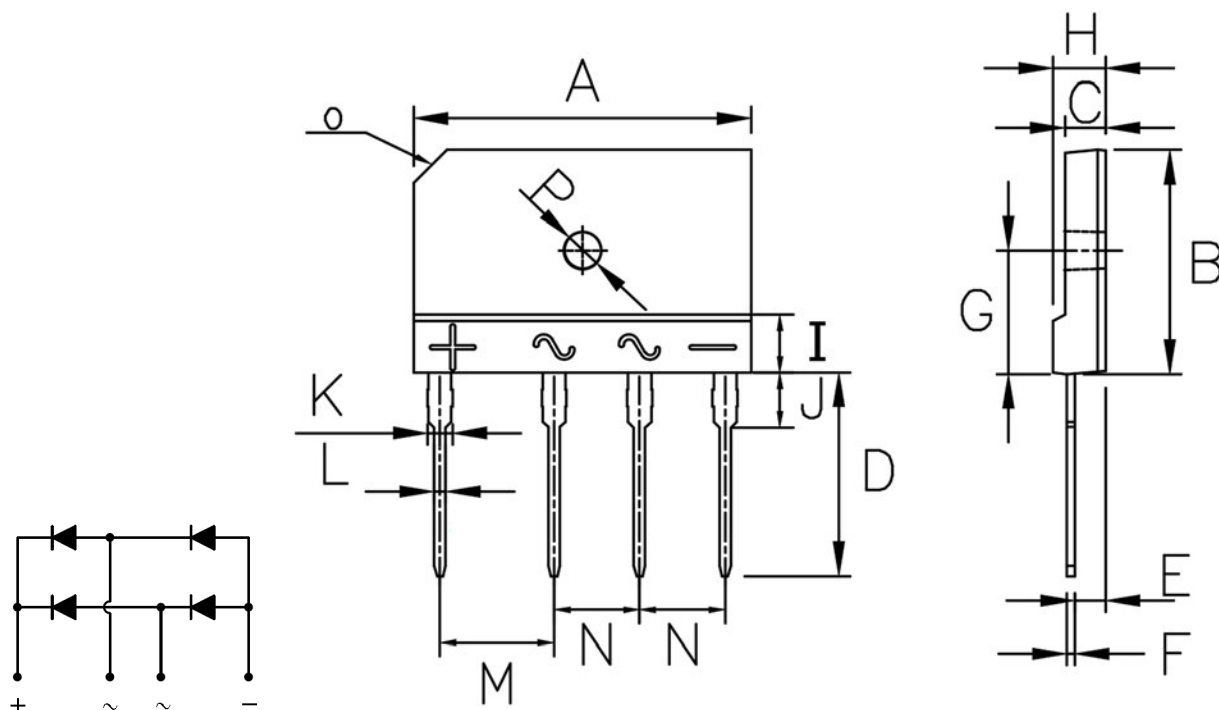
Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
2. Thermal resistance from junction to case per element. Unit mounted on 75 x 75 x 1.6mm aluminum plate heat sink.

■ Characteristics (Typical)



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	7.90	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	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
	min	1169	776	134	669	98	22	291	173	189	150	79	35	386	287		φ118