

GBJ25A THRU GBJ25M

Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 V

Forward Current - 25 A

Features

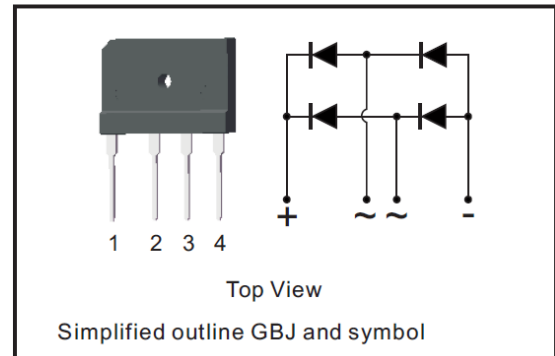
- Ideal for printed circuit boards
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L
- The flammability classification 94V-0

Mechanical Data

- Case: GBJ
- Polarity: As marked on body
- Mounting position : Any

PINNING

PIN	DESCRIPTION
1	Output Anode (+)
2	Input Pin (~)
3	Input Pin (~)
4	Output Cathode (-)



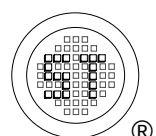
Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	GBJ25A	GBJ25B	GBJ25D	GBJ25G	GBJ25J	GBJ25K	GBJ25M	Units
	Marking	GBJ25A	GBJ25B	GBJ25D	GBJ25G	GBJ25J	GBJ25K	GBJ25M	-
Maximum Repetitive 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 Rectified Current with Heatsink ²⁾	I _{F(AV)}	25							A
Peak Forward Surge Current, 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	350							A
I ² t Rating for Fusing at t ≤ 8.3 ms	I ² t	508							A ² S
Maximum Forward Voltage per Leg at 12.5 A	V _F	1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A = 25°C T _A = 125°C	I _R	5 250							µA
Typical Junction Capacitance ¹⁾	C _j	70							pF
Typical Thermal Resistance ²⁾	R _{θJA}	35							°C/W
	R _{θJC}	2.5							
Operating Junction and Storage Temperature Range	T _J , T _{stg}	- 55 to + 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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Electrical characteristic curves

Fig.1 FORWARD CURRENT DERATING CURVE

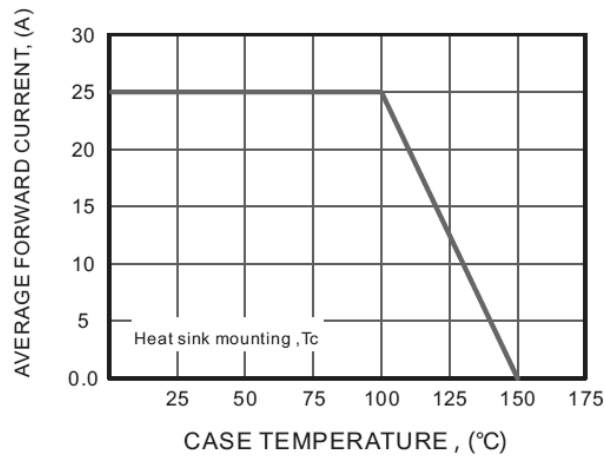


Fig.2 Typical Reverse Characteristics

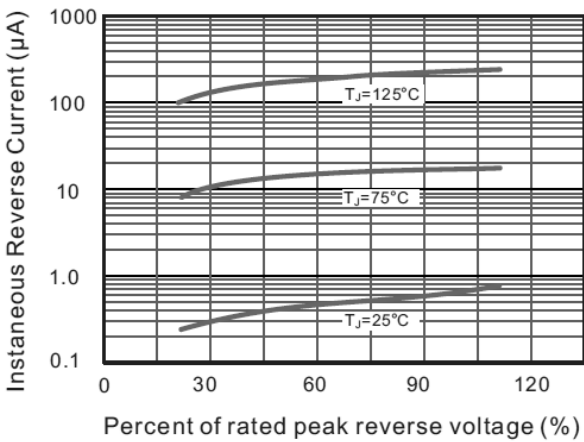


Fig.3 Typical Forward Characteristics

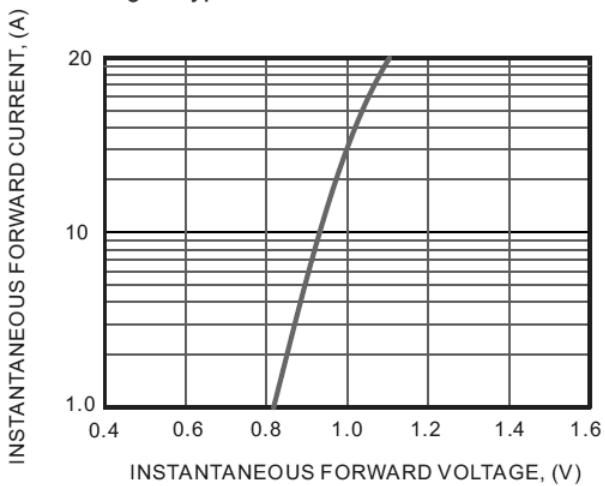


Fig.4 Typical Junction Capacitance

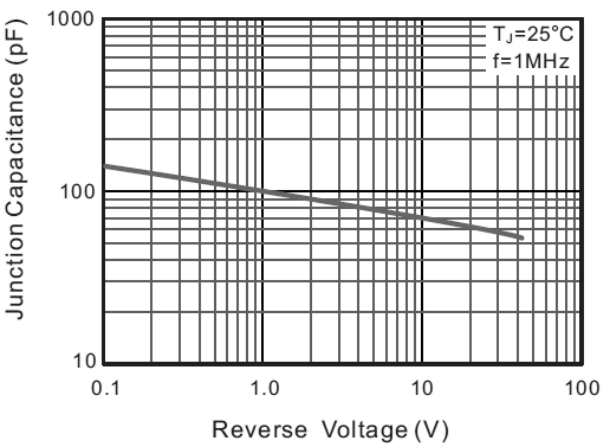
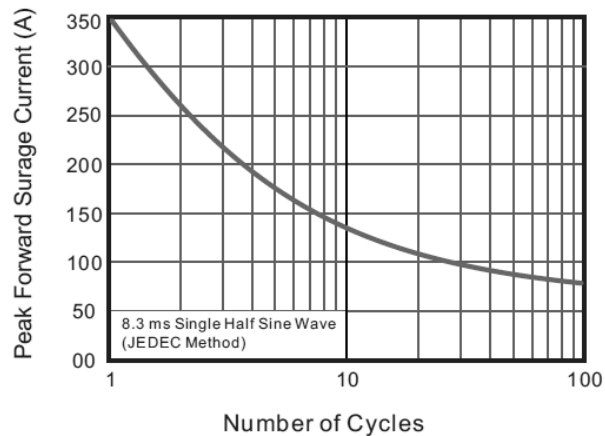


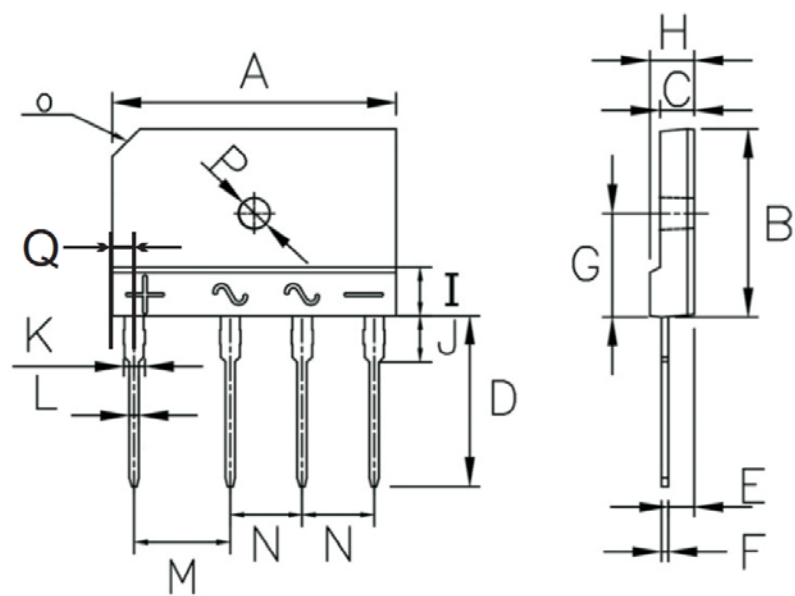
Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



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Package Outline Dimensions

GBJ



Unit		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
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	2.7
	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	9.8	7.30		Φ3.0	2.3
Mil	Max	1193	799	150	709	114	31	441	189	228	165	94	45	402	303	C118	Φ142	106
	Min	1169	776	134	669	98	22	425	173	189	150	79	35	386	287		Φ118	90

Marking information

" XXXXXX " = Part No.

" YYWW " = Date Code Marking

" Y " = Year (ex: 19 = 2019)

" W " = Week (ex: 09 = the 9th week of the year)

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