

**25.0 Glass Passivated Single
Phase Bridge Rectifiers-50-1000V**

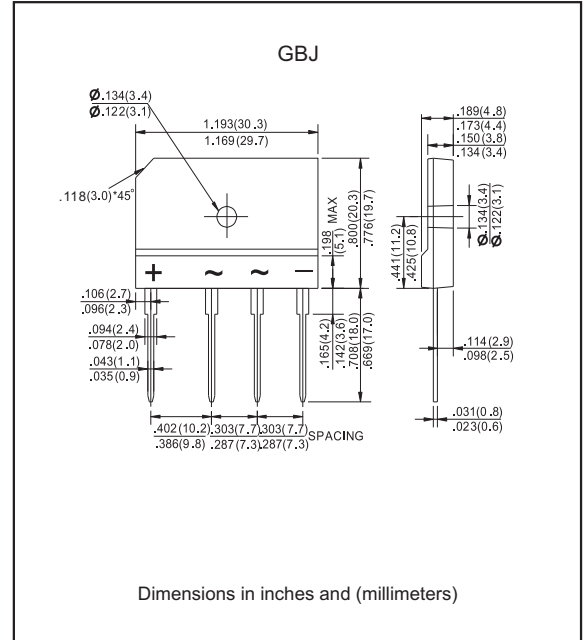
Features

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Glass passivated chip junction.
- Lead-free parts meet RoHS requirements.

Mechanical data

- Epoxy: UL94-V0 rated flame retardant
- Case : Molded plastic, GBJ
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : marked on body
- Mounting Position : Any

Package outline



Maximum ratings and Electrical Characteristics (AT T_A=25°C unless otherwise noted)

PARAMETER	CONDITIONS	SYMBOL	MIN.	TYP.	MAX.	UNIT
Maximum average forward rectified current	with heatsink Note 1 @T _c =100°C without heatsink	I _{F(AV)}			25.0	A
Forward surge current	8.3ms single half sine-wave (JEDEC method)	I _{FSM}			300	A
Reverse current	V _R = V _{RRM} T _J = 25°C	I _R			10.0	μA
	V _R = V _{RRM} T _J = 125°C				500	
Rating for fusing	t < 8.3 ms	I ² t			510	A ² s
Typical Junction capacitance Per Element	Measured at 1.0MHz and applied reverse voltage of 4.0V DC	C _J		85		pF
Typical thermal resistance	Junction to case	R _{θJC}		0.6		°C/W
Storage temperature		T _{STG}	-65		+175	°C

Note: 1. Device mounted on 300mm*300mm*1.6mm Cu plate heatsink.

SYMBOLS	V _{RRM} ^{*1} (V)	V _{RMS} ^{*2} (V)	V _R ^{*3} (V)	V _F ^{*4} (V)	Operating temperature T _J , (°C)
GBJ25005	50	35	50	1.10	-55 to +150
GBJ2501	100	70	100		
GBJ2502	200	140	200		
GBJ2504	400	280	400		
GBJ2506	600	420	600		
GBJ2508	800	560	800		
GBJ2510	1000	700	1000		

- *1 Repetitive peak reverse voltage
- *2 RMS voltage
- *3 Continuous reverse voltage
- *4 Maximum forward voltage@IF=12.5A

Rating and characteristic curves

FIG.1-FORWARD CURRENT DERATING CURVE

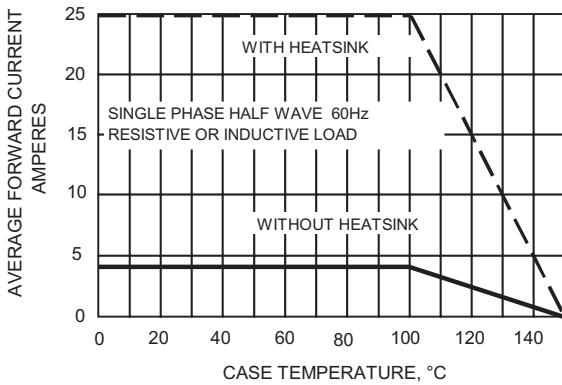


FIG.2-MAXMUN NON-REPETITIVE SURGE CURRENT

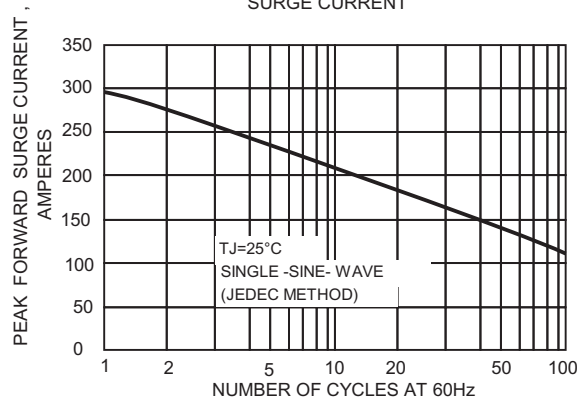


FIG.3-TYPICAL JUNCTION CAPACITANCE

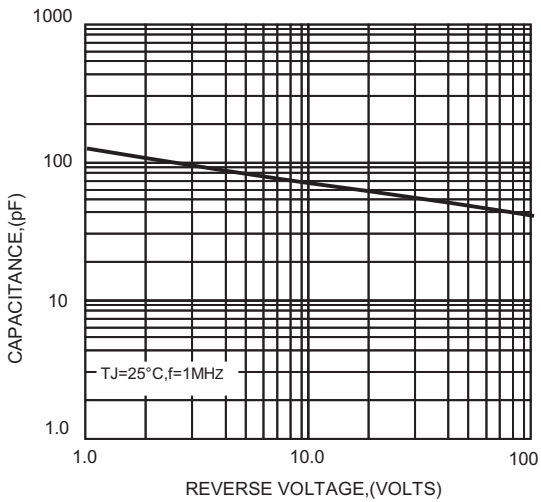


FIG.4-TYPICAL FORWARD CHARACTERISTICS

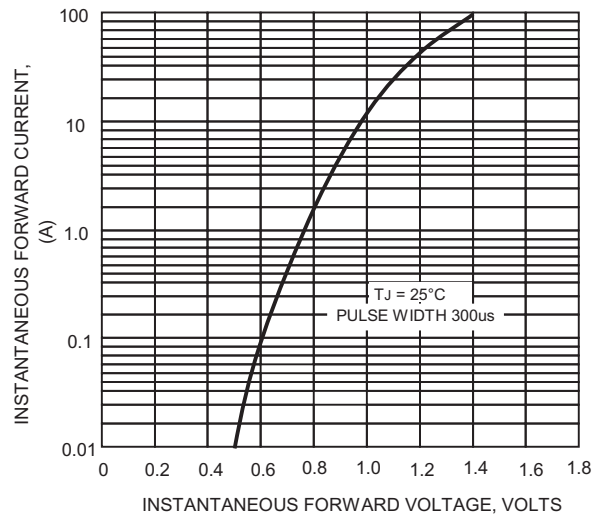
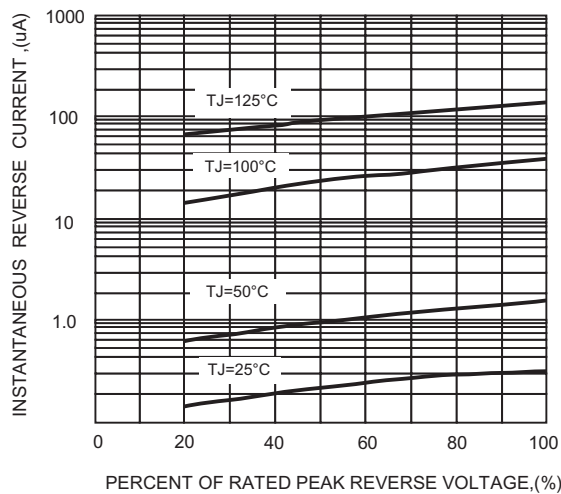
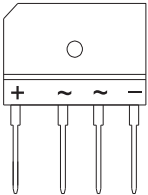
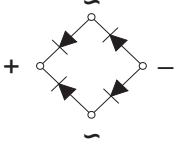


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Pinning information

Simplified outline	Symbol
	

Marking

Type number	Marking code
GBJ25005	GBJ25005
GBJ2501	GBJ2501
GBJ2502	GBJ2502
GBJ2504	GBJ2504
GBJ2506	GBJ2506
GBJ2508	GBJ2508
GBJ2510	GBJ2510

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