



Features

- This series is UL listed under the Recognized Component Index, file number E142814
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High case dielectric strength of 1500VRMS
Ideal for printed circuit boards
- High surge current capability

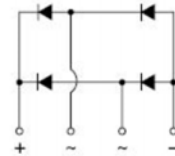


GBJ(GBJ6)

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
GBJ25005-GBJ2510	GBJ(GBJ6)	GBJ25xx	500

xx: From 005-10.



Maxmim Ratings (Ta=25 unless otherwise noted)

Parameter	Symbol	GBJ	GBJ	GBJ	GBJ	GBJ	GBJ	GBJ	Unit
		25005	2501	2502	2504	2506	2508	2510	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	v
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	v
Maximum average forward (with heatsink note1) rectified current at Tc=100°C (without heatsink)	IF(AV)	25.0 4.2							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	350							A
Rating for fusing (t<8.3ms)	I ² t	510							A ² sec
Typical thermal resistance per element (note 1)	RthJC	1.0							°C/W
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150							°C

Electrcal Characteristics (Ta=25 unless otherwise specified)

Parameter	Symbol	GBJ	GBJ	GBJ	GBJ	GBJ	GBJ	GBJ	Unit
		25005	2502	2503	2504	2506	2508	2510	
Maximum instantaneous forward voltage drop per leg at 12.5 A	VF	1.05							V
Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =125°C	IR	10.0 500							μA

Notes: (1) Device mounted on 250mm x 250mm x 20mm aluminum plate heatsink.



Typical Characteristics

Fig. 1 Derating Curve for Output Rectified Current

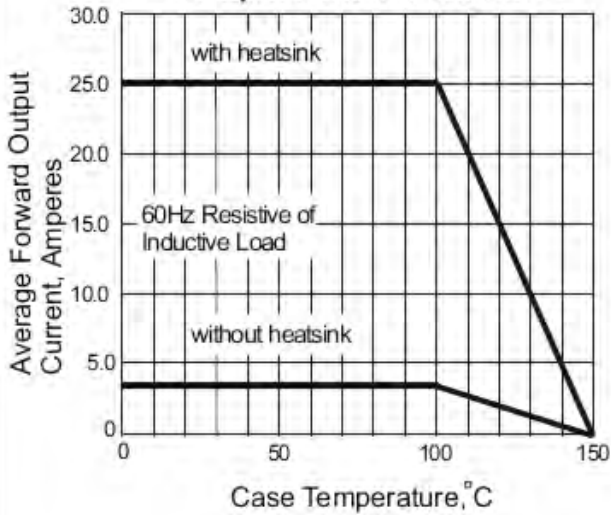


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

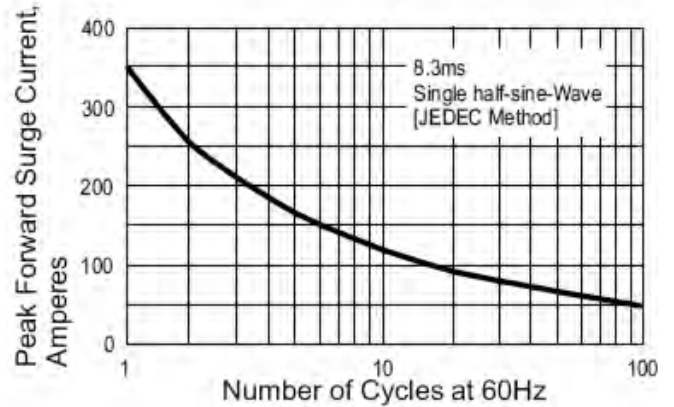


Fig. 3 Typical Instantaneous Forward Characteristics

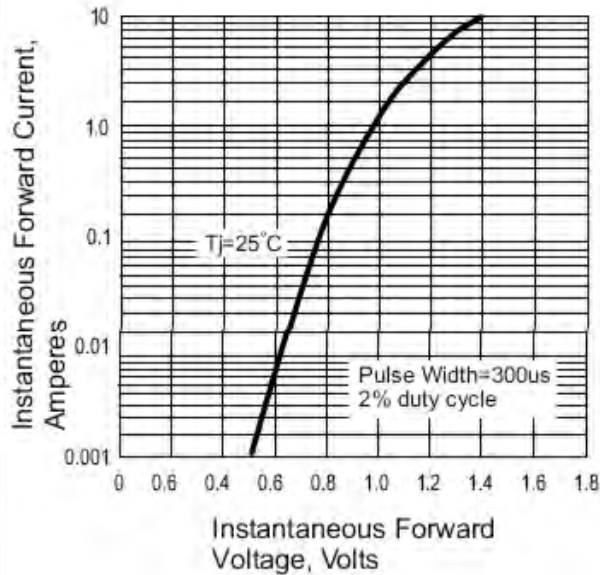


Fig. 4 Typical Reverse Characteristics at Tj=25°C

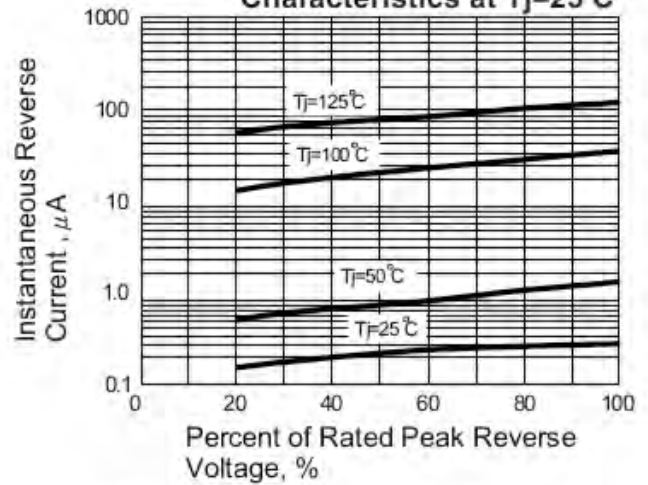
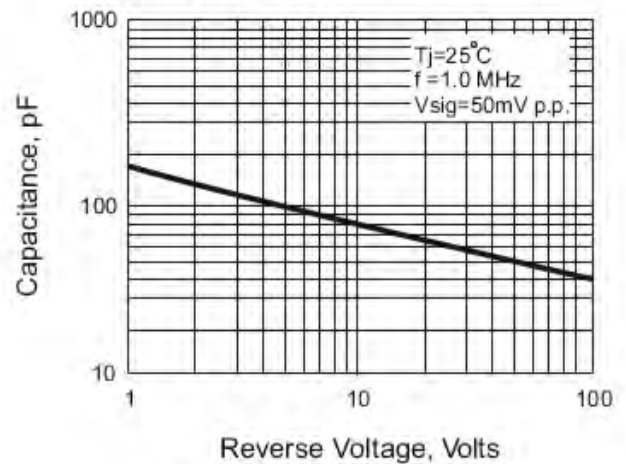
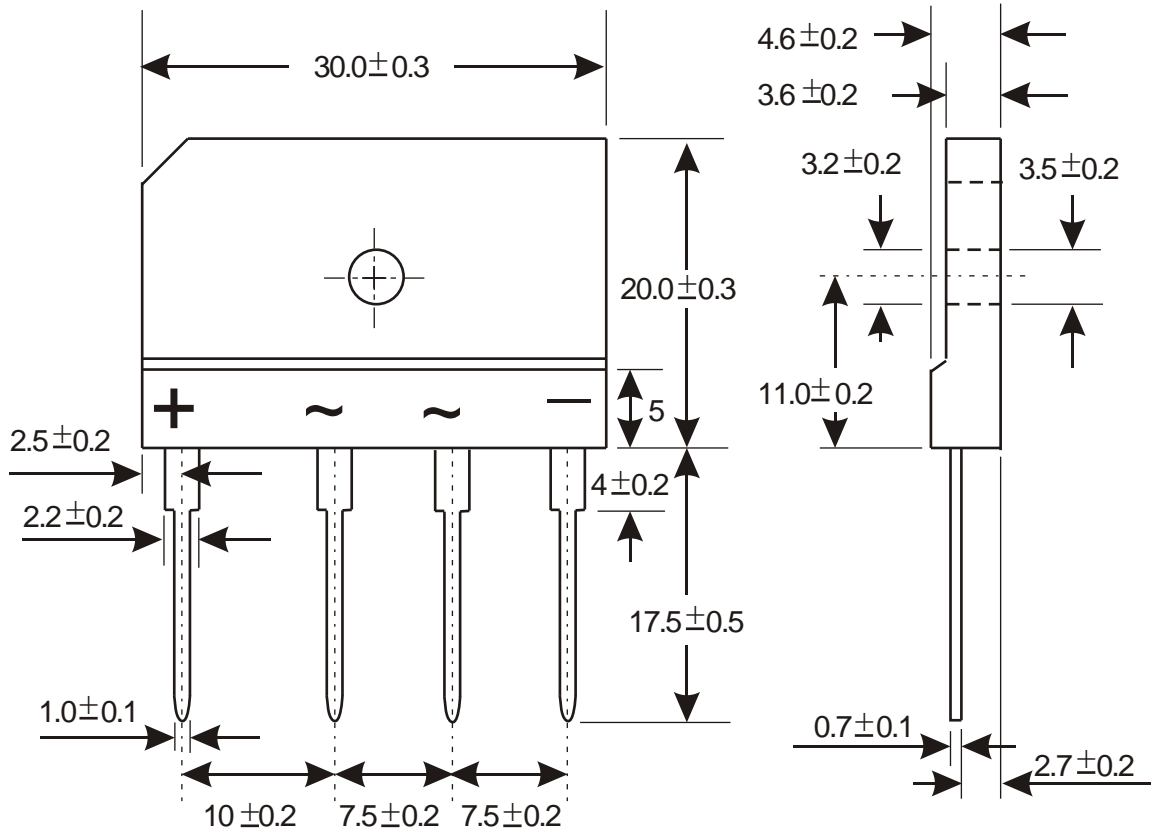


Fig. 5 Typical Junction Capacitance





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