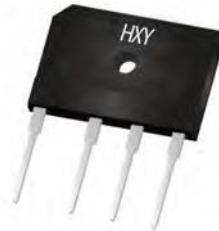




Features

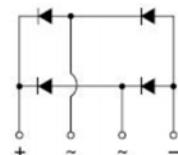
- This series is UL listed under the Recognized Component Index, file number E142814
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High case dielectric strength of 1500VRMS Ideal for printed circuit boards
- High surge current capability



GBJ(GBJ6)

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
HDFB25100	GBJ(GBJ6)	D2510SA	500



Maxmim Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	HDFB25100	Unit
Maximum repetitive peak reverse voltage	VR _{RM}	1000	V
Maximum RMS bridge input voltage	VR _M S	700	V
Maximum DC blocking voltage	V _{DC}	1000	V
Maximum average forward (with heatsink note1) rectified current at T _c =100°C (without heatsink)	I _{F(AV)}	4.2	A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	350	A
Rating for fusing (t<8.3ms)	I ² t	510	A ² sec
Typical thermal resistance per element(note 1)	R _{thJC}	1.0	°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-55 to + 150	°C

Electrical Charcteristics(Ta=25 °C unless otherwise specified)

Parameter	Symbol	HDFB25100	Unit
Maximum instantaneous forward voltage drop per leg at 12.5 A	V _F	1.05	V
Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =125°C	I _R	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

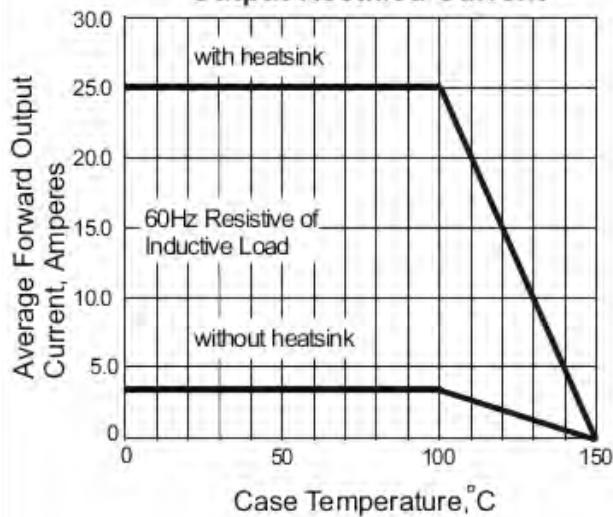


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

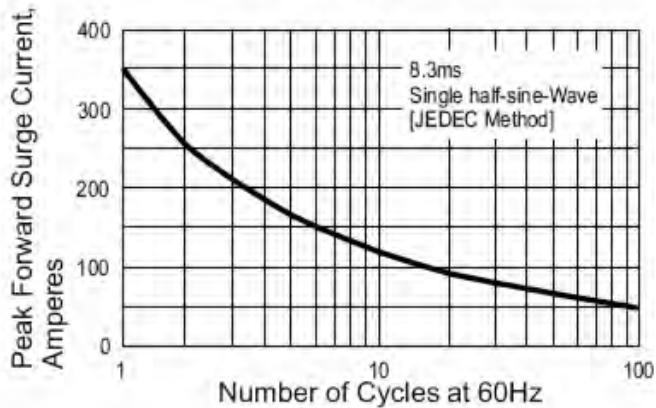


Fig. 3 Typical Instantaneous Forward Characteristics

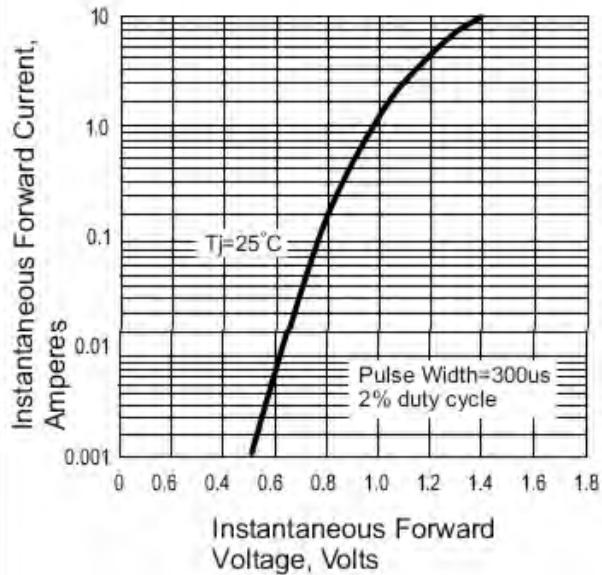


Fig. 4 Typical Reverse Characteristics at $T_j=25^\circ\text{C}$

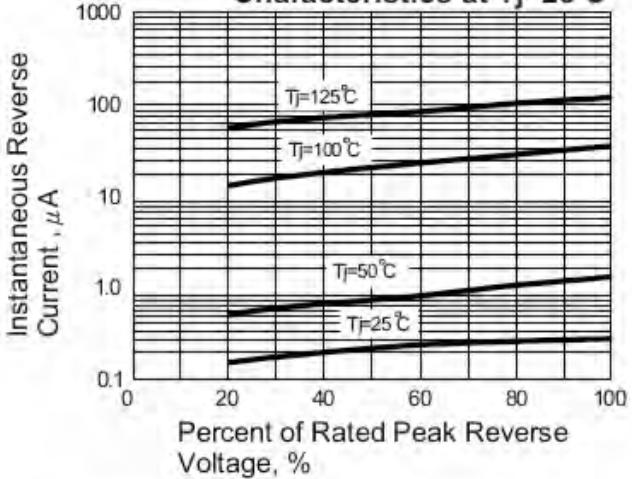
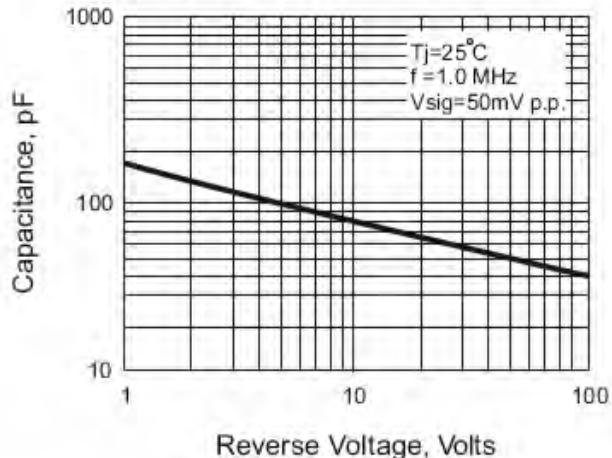
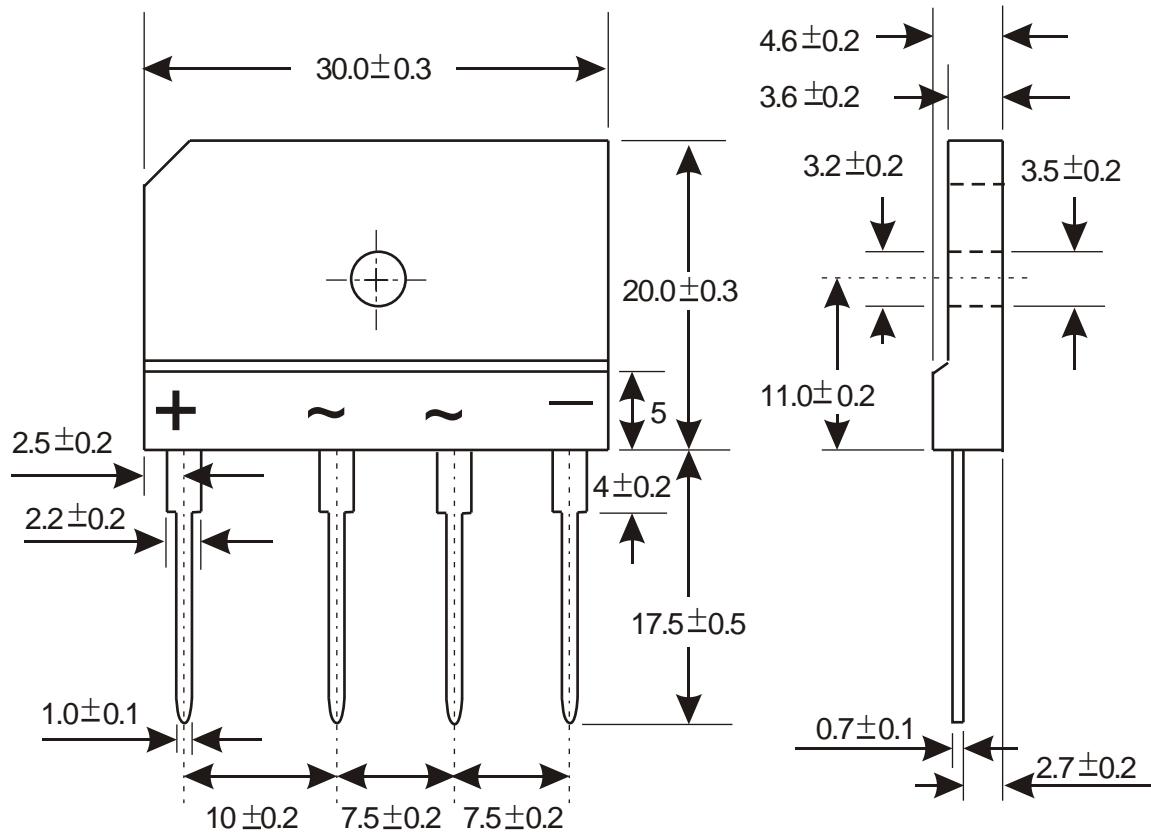


Fig. 5 Typical Junction Capacitance





Package Information
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