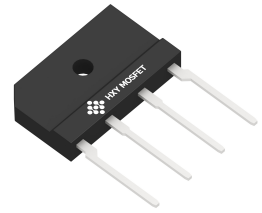




Features

- 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

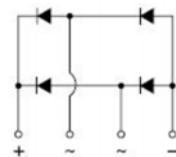


KBJ

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
KBJ15005-KBJ1510	KBJ(4KBJ)	KBJ15xx	250

xx: From 005-10.



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

Parameter	Symbol	KBJ 15005	KBJ 1501	KBJ 1502	KBJ 1504	KBJ 1506	KBJ 1508	KBJ 1510	Unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS 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 rectified output current Tc =100°C TA =25°C	IF(AV)	15.0 (1) 7.5(2)							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	170							A
Rating for fusing (t<8.3ms)	I ² t	120							A ² sec
Maximum thermal resistance per leg	ReJA ReJC	2.6(2) 5 (1)							°C/W
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150							°C

Electrcal Charcteristics (Ta=25 unless otherwise specified)

Parameter	Symbol	KBJ 15005	KBJ 1501	KBJ 1502	KBJ 1504	KBJ 1506	KBJ 1508	KBJ 1510	Unit
Maximum instantaneous forward voltage drop per leg at 4.0A	VF	1.05							V
Maximum DC reverse current at rated DC blocking voltage per leg TA =25°C TA =125°C	IR	10 500							μA

Notes: (1)Unit case mounted on Al plate heatsink.

(2)Units mounted on P.C.B. with 0.5x0.5"(12x12mm) copper pads and 0.375"(9.5) lead length.

(3)Recommended mounting position is to bolt down on heat sink with silicone thermal compound for maximum heat transfer with #6 screw.



Typical Characteristics

Fig. 1 Derating Curve for Output Rectified Current

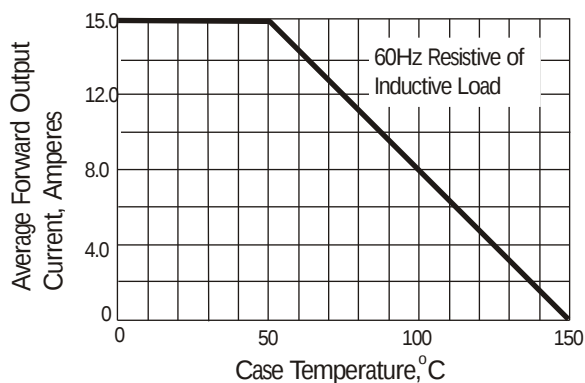


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

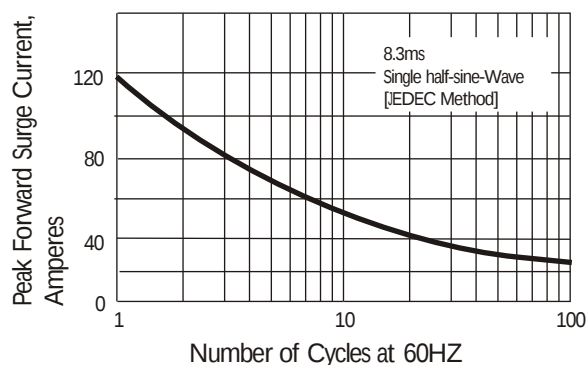


Fig. 3 Typical Instantaneous Forward Characteristics

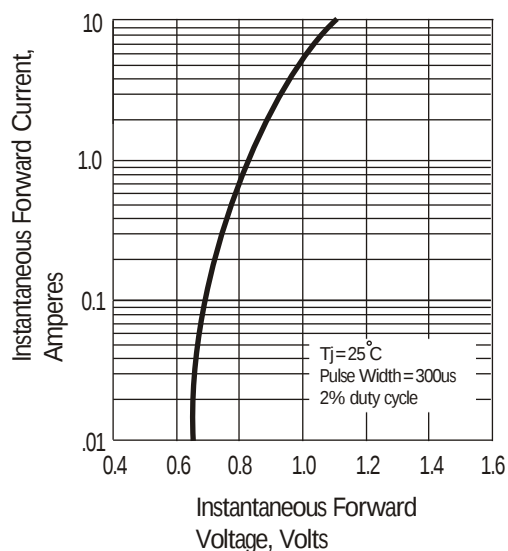


Fig. 4 Typical Reverse Characteristics at T_J = 25°C

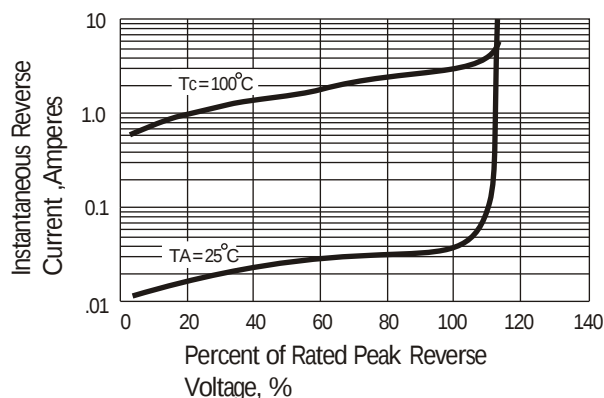
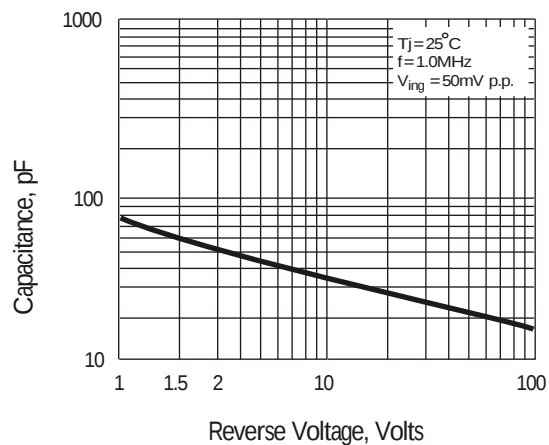
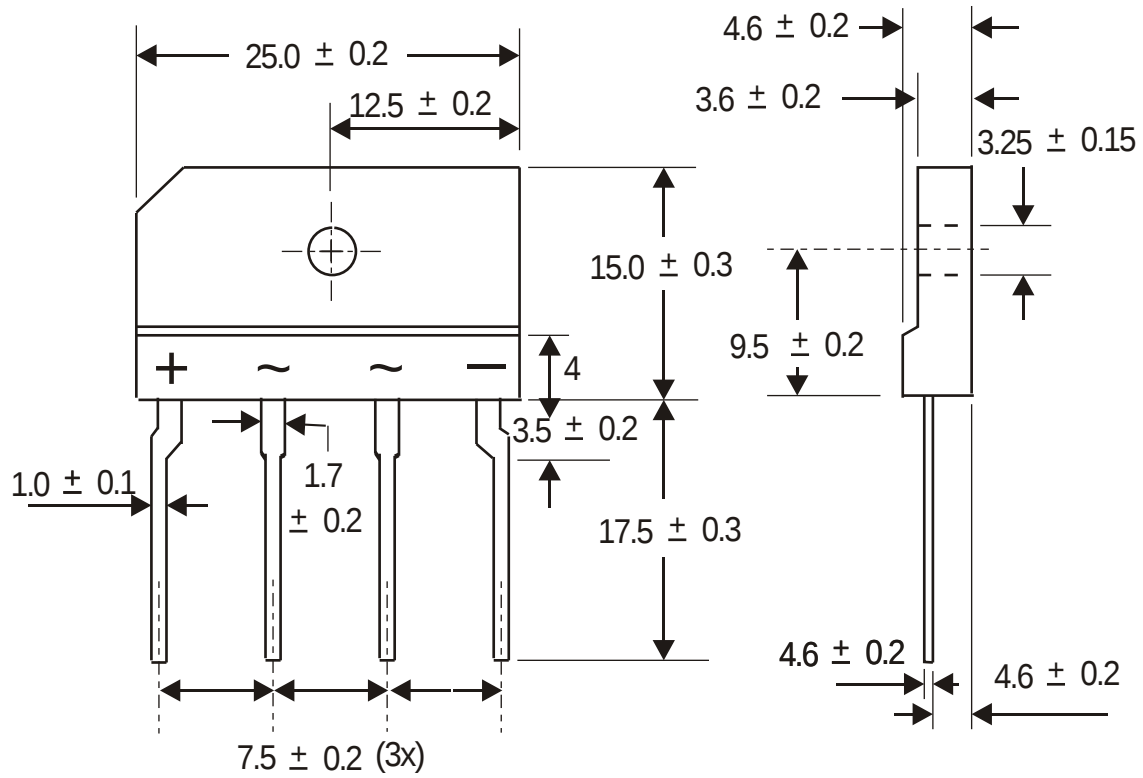


Fig. 5 Typical Junction Capacitance





Package Information
KBJ(4KBJ)



Dimensions in millimeters(1mm=0.0394")



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