



### 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

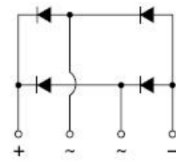


**KBJ(4KBJ)**

### Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
KBJ10005-KBJ1010	KBJ(4KBJ)	KBJ10xx	250

xx: From 005-10.



### Maxmim Ratings (Ta=25 unless otherwise noted)

Parameter	Symbol	KBJ 10005	KBJ 1001	KBJ 1002	KBJ 1004	KBJ 1006	KBJ 1008	KBJ 1010	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 <small>Tc = 100°C TA = 25°C</small>	IF(AV)	10.0(1) 3.0(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 <sup>2</sup> t	120							A <sup>2</sup> 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)

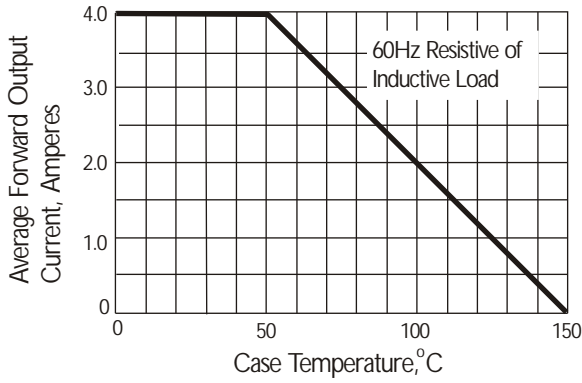
Parameter	Symbol	KBJ 1005	KBJ 1001	KBJ 1002	KBJ 1004	KBJ 1006	KBJ 1008	KBJ 1010	Unit
Maximum instantaneous forward voltage drop per leg at 4.0A	VF	1.05							V
Maximum DC reverse current at rated DC blocking voltage per leg <small>TA = 25°C TA = 125°C</small>	IR	10 500							μA

- 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.

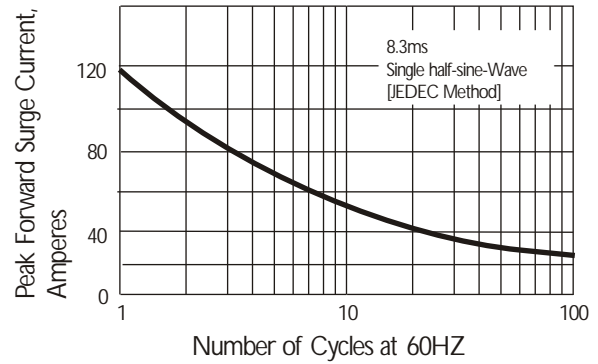


## Typical Characteristics

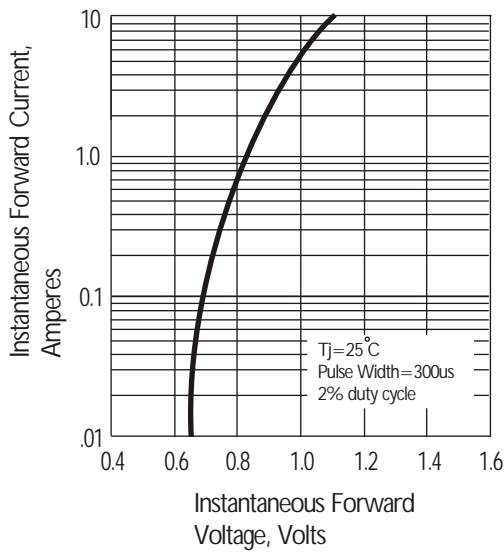
**Fig. 1 Derating Curve for Output Rectified Current**



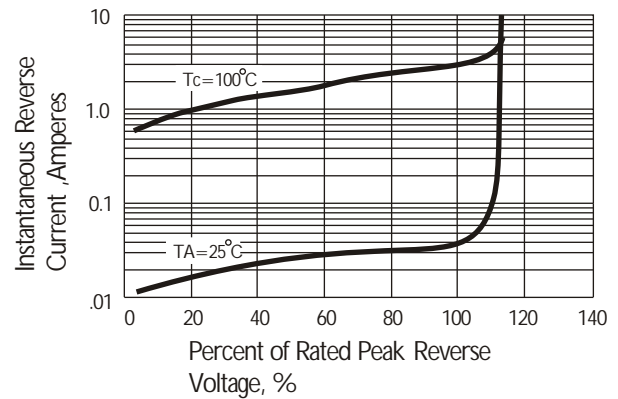
**Fig. 2 Maximum Non-repetitive Peak Forward Surge Current**



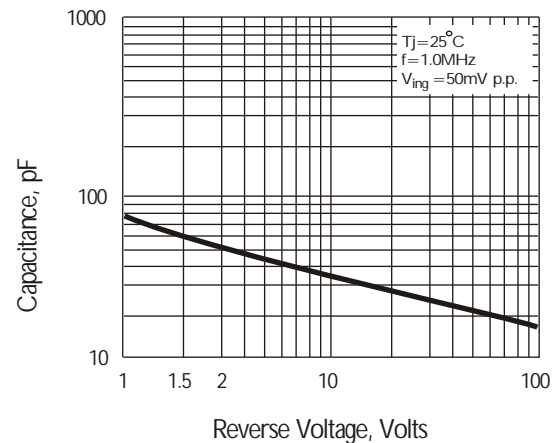
**Fig. 3 Typical Instantaneous Forward Characteristics**



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

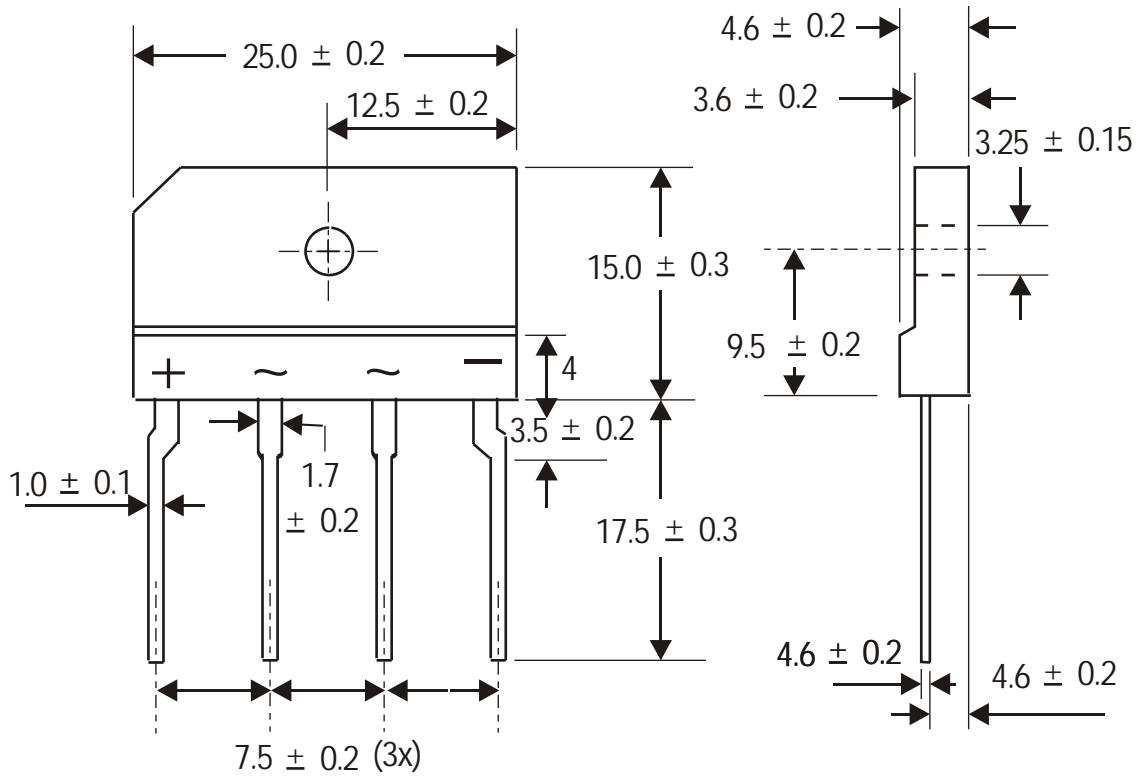


**Fig. 5 Typical Junction Capacitance**





**Package Information**  
**KBJ(4KBJ)**



Dimensions in millimeters(1mm =0.0394")



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