



### **Glass Passivated Bridge Rectifiers**

VOLTAGE | 400 to 1200 Volt | CURRENT | 35 Ampere

### **FEATURES**

- UL Recognized File #E228882
- Plastic material has Underwriters Laboratory
   Flammability Classification 94V-O
- · Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique.
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- · Glass passivated chip junction

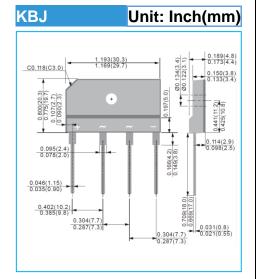
#### **MECHANICAL DATA**

· Case: KBJ

•Terminals: Leads solderable per MIL-STD-750, Method 2026

Polarity: As marked on bodyMounting torque: 8.5 inch-lbs. Max.

• Weight: 6.96g



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°Cambient temperature unless otherwise specified.

PARAMETER		SYMBOL	KBJ 3504	KBJ 3506	KBJ 3508	KBJ 3510	KBJ 3512	UNIT
Maximum repetitive peak reverse voltage		V <sub>RRM</sub>	400	600	800	1000	1200	V
Maximum RMS voltage		V <sub>RMS</sub>	280	420	560	700	840	V
Maximum DC blocking voltage		V <sub>DC</sub>	400	600	800	1000	1200	V
Maximum average forward rectified current		I <sub>F(AV)</sub>	35					Α
Peak forward surge current, 8.3 ms single half sine-wave		I <sub>FSM</sub>	400					А
Rating of fusing ( t<8.3ms)(Note1)		l <sup>2</sup> t	664					A <sup>2</sup> s
Maximum instantaneous forv voltage per diode	vard IF = 17.5 A IF = 35 A	VF			1 1.1			V
Maximum reverse current @ rated V <sub>R</sub>	T <sub>J</sub> =25°C T <sub>J</sub> =125°C	<b>I</b> R	5 500					μΑ
Typical junction capacitance (Note 2)		Сл	140					pF
Typical thermal resistance	(Note 3) (Note 4)	Re ja Re jc	22 0.8					°C/W
Operating junction temperature range		TJ	- 55 to +150					°C
Storage temperature range		Тѕтс	- 55 to +150					°C

Note 1: Non-repetitive, for t > 1ms and < 8.3ms.

Note 2: Measured at 1MHz and applied Reverse bias of 4V DC

Note 3: Products installed on the PCB, Without heatsink  $\,^{\circ}$ 

Note 4: Products installed on aluminum plate heatsink •





### **TYPICAL CHARACTERISTIC CURVES**

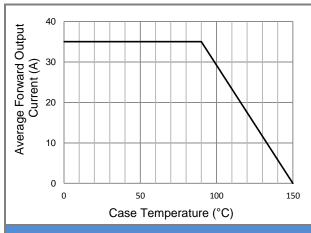


Fig.1 Forward Current Derating Curve

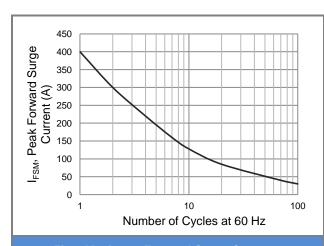


Fig.2 Maximum Forward Surge Current

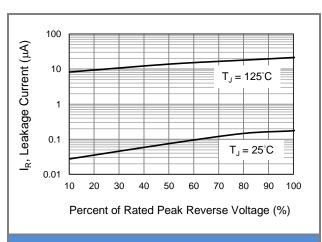
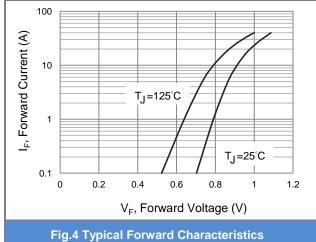
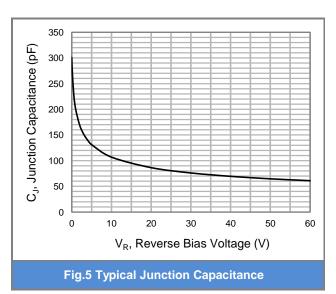


Fig.3 Typical Reverse Characteristics





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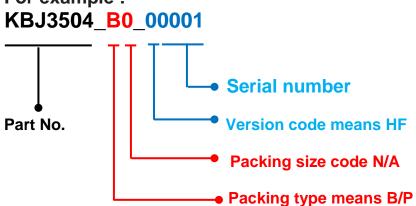




# Part No\_packing code\_Version

KBJ3504\_B0\_00001 KBJ3504\_B0\_10001

## For example:



	Version Code XXXXX					
Packing type	I <sup>st</sup> Code	Packing size code	2 <sup>st</sup> Code	HF or RoHS	I <sup>st</sup> Code	2 <sup>st</sup> ~5 <sup>st</sup> Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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