

KBJ10AU thru KBJ10MU

GOOD-ARK Electronics

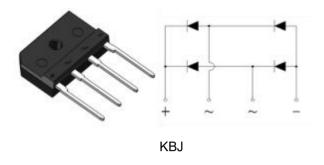
Reverse Voltage50~1000V

Output Current 10A

Features

- Thin Single In-Line package;
- Ideal for printed circuit boards;
- Glass Passivated chip junction;
- High Surge current capability;
- High case dielectric strength of 2000 V_{RMS};
- Plastic package has Underwrites Laboratory
- Flammability Classification 94V-0;

Typical Applications



 General purpose use in AC-to-DC bridge full wave rectification for Switching Power Supply, Home Appliances, Office Equipment, Industrial Automation applications.

Mechanical Data

- Case: KBJ(3S)Molded plastic body; Base P/N with suffix"E" on packing code-halogen free;
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026;
- High temperature soldering guaranteed: Solder Dip 260°C, 10seconds;
- Polarity: As marked on body; •
- •
- Mounting Torgue: 10cm-kg (8.8 inches-lbs) max; Recommend Torgue: Mounting Torgue: 5.7cm-kg (5inches-lbs); •

Maximum Ratings (TA = 25 °C unless otherwise noted)										
Parameter		Symbol	KBJ10AU	KBJ10BU	KBJ10DU	KBJ10GU	KBJ10JU	КВЈ10КU	KBJ10MU	Unit
Maximum repetitive peak reverse voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage		V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at	T _c =100°C	I _{F(AV)}	10 ⁽¹⁾				А			
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load		I _{FSM}	200							A
Rating for fusing(t<8.3ms)		۴t	167							A ² sec
Operating junction and storage temperature range		T _J , T _{STG}	- 55 to + 150							°C



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Electrical Characteristics (TA = 25°C unless otherwise noted)										
Parameter	Symbol	KBJ10AU	KBJ10BU	KBJ10DU	KBJ10GU	KBJ10JU	КВЈ10КU	KBJ10MU	Unit	
Maximum instantaneous forward voltage drop per leg at 5A		V _F	1.00							
Maximum DC reverse at rated DC blocking voltage per leg	TA=25°C		5.0							
	TA=125°C	l _R	250							
	R _{0JA} ⁽²⁾	26								
Typical thermal resistance per leg		R _{0JC} ⁽¹⁾	5							°C/W

Notes: 1. Unit case mounted on 14*14*0.15 cm thick AL plate heatsink

2. Units mounted in free air, no heatsink on P.C.B. with 0.5*0.5" (12.7*12.7mm) copper pads and 0.375"(9.5mm) lead length

3. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screws

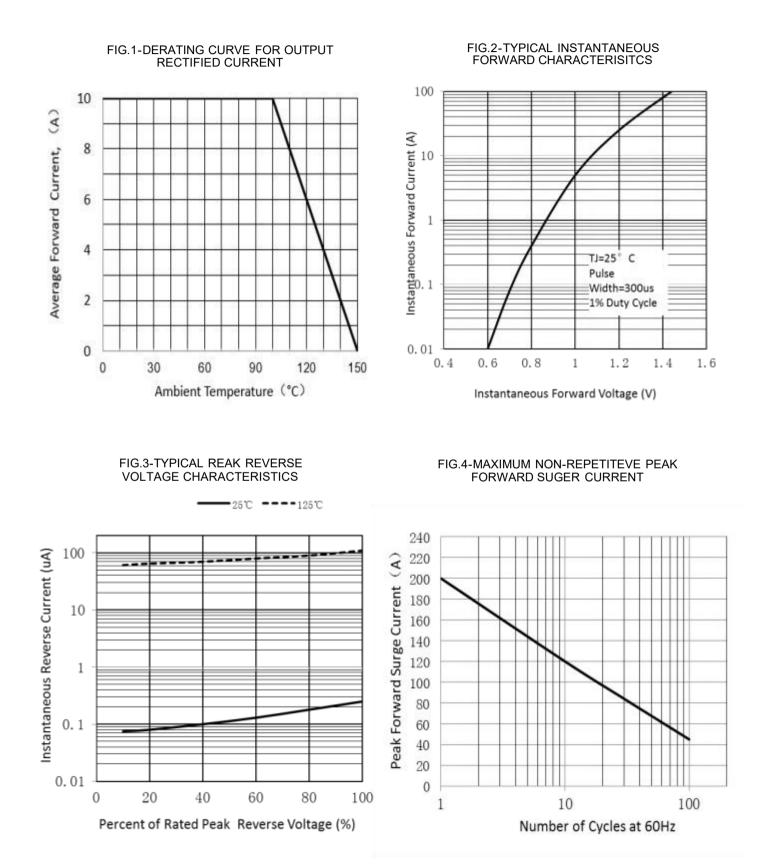


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Ratings and Characteristics Curves

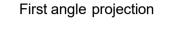
(TA = 25°C unless otherwise noted)

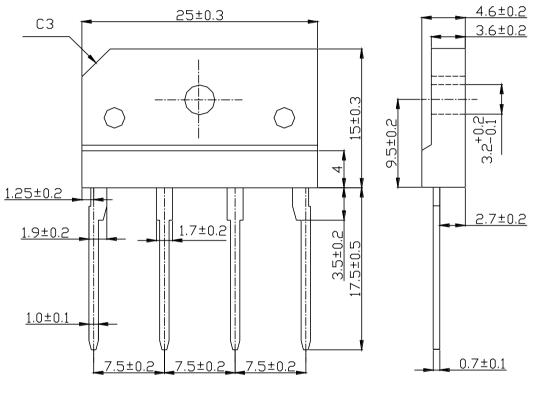




Package Outline Dimensions

in millimeters





elevation view

right elevation

Revision History

Document Version	Date of release	Discroption of changes
Rev.A	2021/3/1	Released Datasheet
Rev.B	2023/12/8	Modify document format



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