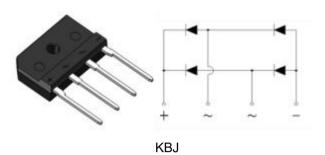


GOOD-ARK Electronics

Reverse Voltage50~1000V Output Current 4A

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 VRMS;
- 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	KBJ4A	KBJ4B	KBJ4D	KBJ4G	KBJ4J	KBJ4K	KBJ4M	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)}	4 ⁽¹⁾							
	T _A =25°C		2.3 ⁽²⁾							
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load		I _{FSM}	80							Α
Rating for fusing(t<8.3ms)		l²t	27						A ² sec	
Operating junction and storage temperature range		T _J , T _{STG}	- 55 to + 150							°C



KBJ4A thru KBJ4M GOOD-ARK Electronics

Electrical Characteristics (TA = 25°C unless otherwise noted)										
Parameter	Symbol	KBJ4A	KBJ4B	KBJ4D	KBJ4G	KBJ4J	KBJ4K	KBJ4M	Unit	
Maximum instantaneous forward voltage drop per leg at 2A		V _F	1.00							Volts
Maximum DC reverse at rated DC blocking voltage per leg	TA=25°C		5.0							
	TA=125°C	I _R	250							
	R _{θJA} ⁽²⁾	26								
Typical thermal resistance per	R _{eJC} ⁽¹⁾	5						°C/W		

^{1).} Unit case mounted on Al plate heatsink;

^{2).} Units mounted on PCB without heatsink;

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

GOOD-ARK Flectronics

Ratings and Characteristics Curves

(TA = 25 . C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

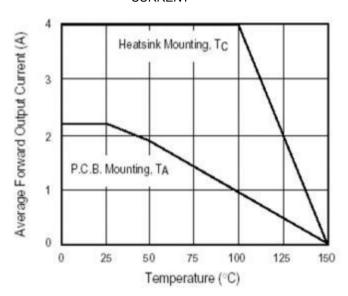


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

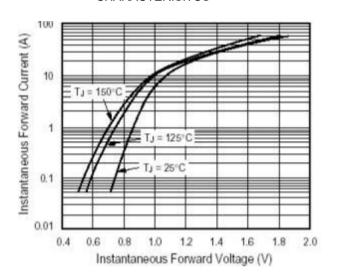


FIG.3-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS

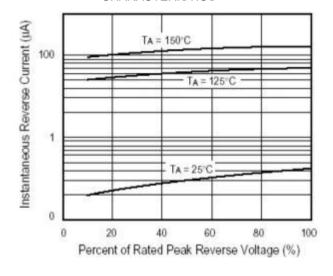
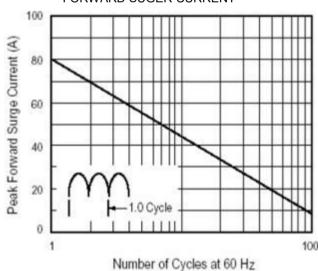


FIG.4-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT

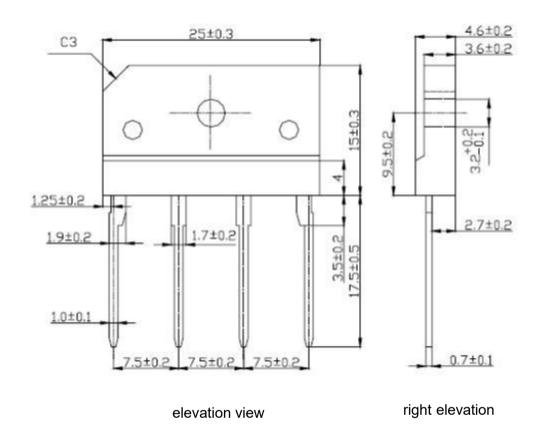




Package Outline Dimensions

in millimeters

First angle projection



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

KBJ4A thru KBJ4M

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