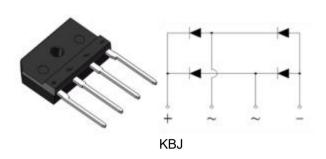


Reverse Voltage50~1000V

Output Current 6A

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	KBJ6A	KBJ6B	KBJ6D	KBJ6G	KBJ6J	KBJ6K	KBJ6M	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)}	6				А			
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load		I _{FSM}	180							A
Rating for fusing(t<8.3ms)		ŕt	135							A ² sec
Operating junction and storage temperature range		T _J , T _{STG}	- 55 to + 150							°C



Electrical Characteristics (TA = 25°C unless otherwise noted)										
Parameter		Symbol	KBJ6A	KBJ6B	KBJ6D	KBJ6G	KBJ6J	KBJ6K	KBJ6M	Unit
Maximum instantaneous forward voltage drop per leg at 3A		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							μA
	$R_{\theta JA}^{(2)}$	26								
Typical thermal resistance per l	$R_{\theta JC}^{(1)}$	5						°C/W		

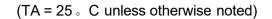
1). Unit case mounted on AI plate heatsink;

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 screw.



Ratings and Characteristics Curves



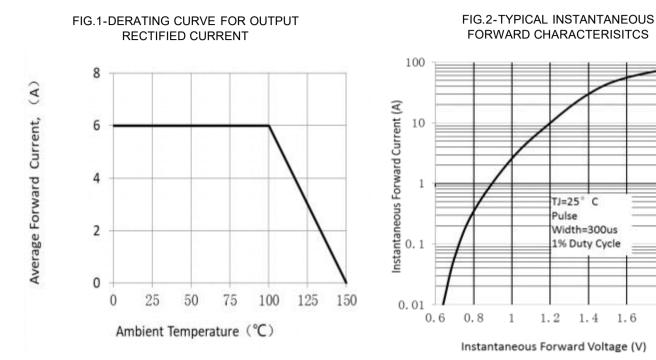


FIG.3-TYPICAL REAK REVERSE **VOLTAGE CHARACTERISTICS**

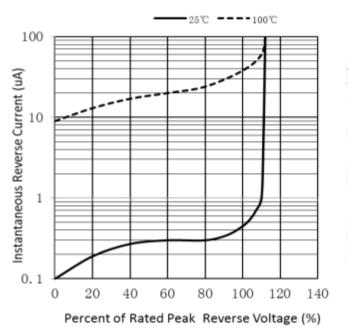
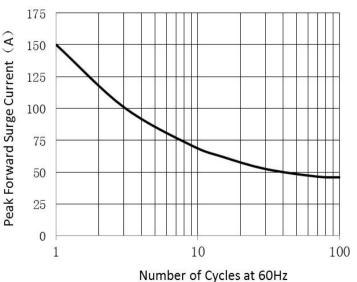


FIG.4-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT

1.8

1.6

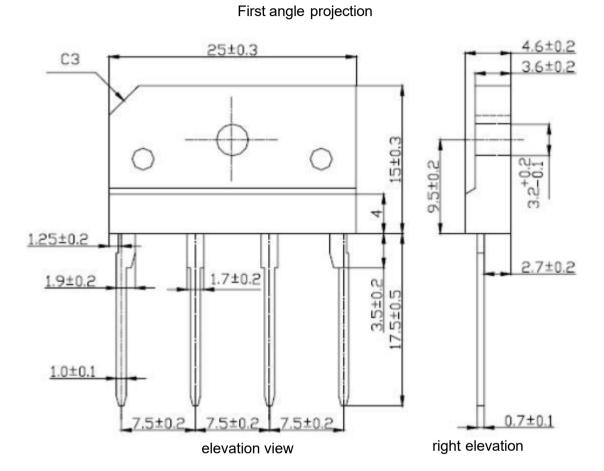
2





Package Outline Dimensions

in millimeters



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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