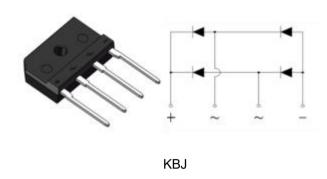


Reverse Voltage50~1000V Output Current 8A

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	KBJ8A	KBJ8B	KBJ8D	KBJ8G	KBJ8J	KBJ8K	KBJ8M	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 $_{\circ}$ C $I_{F(A)}$		I _{F(AV)}	8							А
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load		I _{FSM}	180							А
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	KBJ8A	KBJ8B	KBJ8D	KBJ8G	KBJ8J	KBJ8K	KBJ8M	Unit
Maximum instantaneous forward voltage drop per leg at 4A		۷ _F	1.00							Volts
Maximum DC reverse at rated	TA=25°C		5.0							
DC blocking voltage per leg	TA=125°C	k	250							
	R _{0JA} ⁽²⁾	26								
Typical thermal resistance per l	R _{0JC} ⁽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

 $(TA = 25^{\circ}C \text{ unless otherwise noted})$

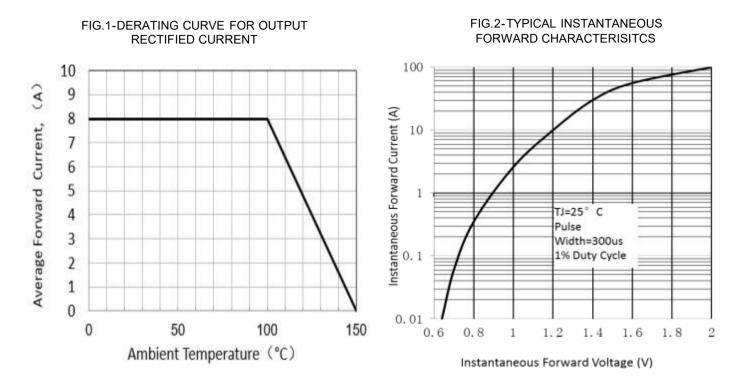


FIG.3-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS

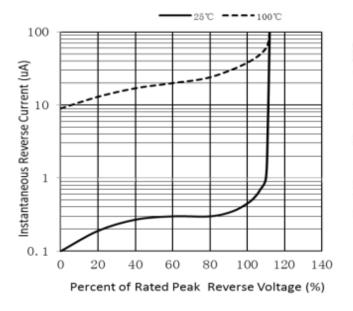
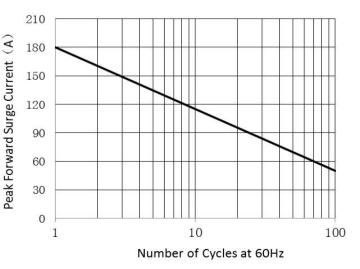


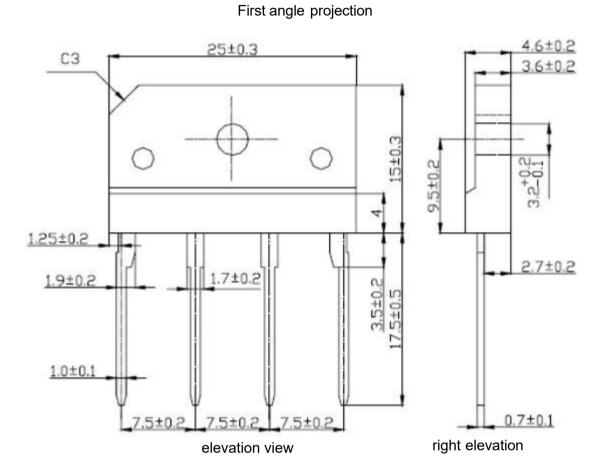
FIG.4-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT





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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