

Features

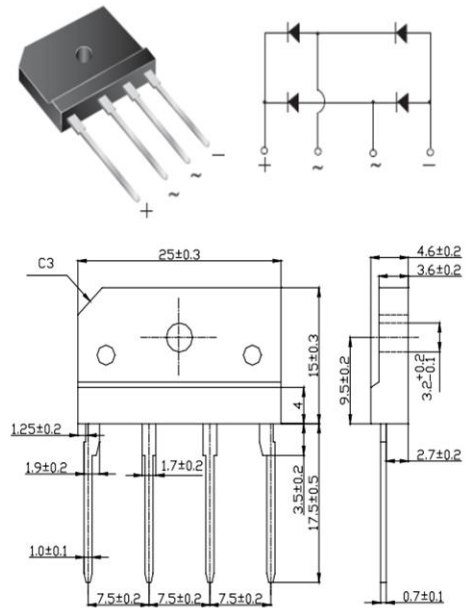
- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ High case dielectric strength of 2500 VRMS
- ◆ Ideal for printed circuit boards
- ◆ Glass passivated chip junction
- ◆ Ultra surge current capability

Mechanical Data

- ◆ Case: KBJ(3S) Molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- ◆ High temperature soldering guaranteed:
260°C/10 seconds, 0.375 (9.5mm) lead length, 5lbs. (2.3kg) tension
- ◆ Polarity: As marked on body
- ◆ Mounting Torque: 10 cm·kg (8.8 inches·lbs) max
- ◆ Recommended Torque: 5.7 cm·kg (5 inches·lbs)

Typical Applications

General purpose use in ac-to-dc bridge full wave rectification for Monitor, TV, Printer, Switching Mode Power Supply, Adapter, Audio equipment, and Home Appliances applications



Dimensions in millimeters

Maximum Ratings & Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

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 60Hz, sine wave R-load TC=110°C	$I_{F(AV)}$	6.0 ⁽¹⁾							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	180							A
Rating for fusig (t<8.3ms)	I^2t	120							A ² sec
Maximum instantaneous forward voltage drop per leg at 3.0A	VF	1.00							V
Maximum DC reverse current at rated DC blocking voltage per leg TA=25°C TA=125°C	IR	5 250							μA
Typical thermal resistance per leg	$R_{\theta JA}$ $R_{\theta JC}$	26 ⁽²⁾ 2.3 ⁽¹⁾							°C/W
Dielectric strength (Terminals to case, AC 1 minute)	V_{ISO}	2000							V
Operating junction temperature range	TJ	-55 to +150							°C
Storage temperature range	TSTG	-55 to +150							°C

Notes:

- (1) Unit case mounted on AL plate heatsink
- (2) Unit mounted on P.C.B. with 0.5×0.5" (12×12mm) copper pads and 0.375" (9.5mm) lead length without heatsink
- (3) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw

RATINGS AND CHARACTERISTICS CURVES

