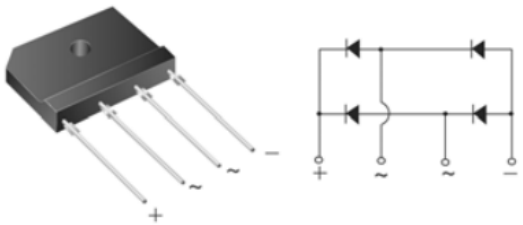
KBJ



Features

- ROHS compliant
- Glass passivated chip
- High forward surge capability
- Meet MSL level 1, per J-STD-020 LF maximum peak of 250 °C
- Solder dip 260 °C / 40S
- Component in accordance to ROHS 2002/95/EC and WEEE 2002/96/WC
- UL recognition, file number E342874

Primary characteristics

$I_{F(AV)}$	2.0A
V_{RRM}	50V to 1000V
I_{FSM}	50A
I_{RM}	10uA
V_{FM} at I_F=1.0A	1.0V
T_J max.	150 °C

Applications

Ideal for ac-to-dc bridge full wave rectification suck as SMPS, home applianes, office equipment, indusrial automation applicatios

Mechanical data

- Case: KBJ
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.
- Mounting Torque:10cm-kg(8.8 inches-lbs)max.
- Recommended Torque:5.7 cm-kg(5 inches-lbs)

Maximum rating (Ta=25°C unless otherwise noted)

Parameter		Sym	KBJ							Unit
			KBJ 2005	KBJ 201	KBJ 202	KBJ 204	KBJ 206	KBJ 208	KBJ 210	
Max. repetitive peak reverse voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Max. RMS reverse voltage		V_{RMS}	35	70	140	280	420	560	700	V
Max. DC blocking voltage		V_{DC}	50	100	200	400	600	800	1000	V
Max. average forward current (see Fig.1)		$I_{F(AV)}$	2.0							A
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		I_{FSM}	50.0							A
Max. instantaneous forward voltage drop per diode		V_{FM}	1.0 (1.0)							V
Max. instantaneous reverse current at rated DC blocking voltage	Ta=25 °C	I_{RM}	10							μA
	Ta=125 °C		1							mA
Operating junction temperature		T_J	-55 ~ +150							°C
Storage temperature		T_{STG}	-55 ~ +150							°C

Ordering information (Example)

PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
KBJ210				

Typical characteristics

FIG. 1 - DERATING CURVE OUTPUT RECTIFIED CURRENT

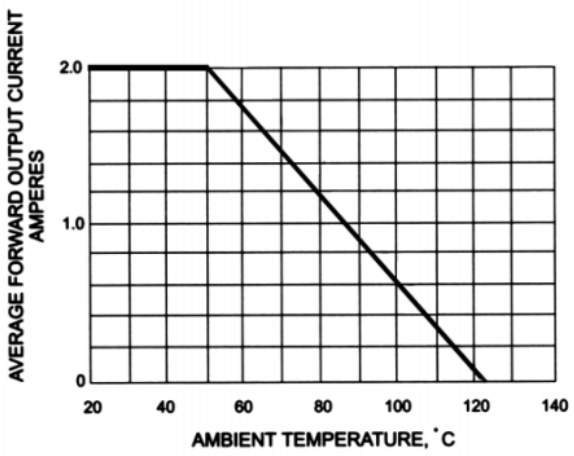


FIG. 2 - TYPICAL FORWARD CHARACTERISTICS

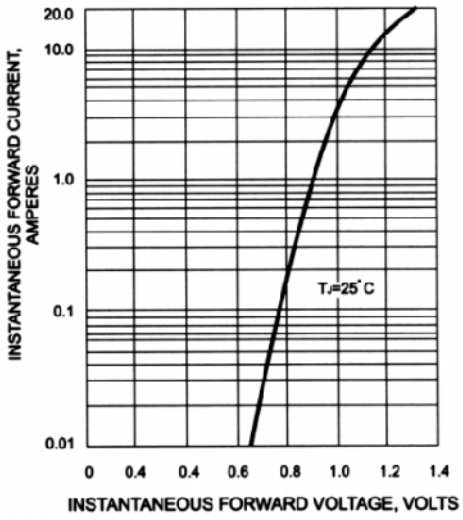


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

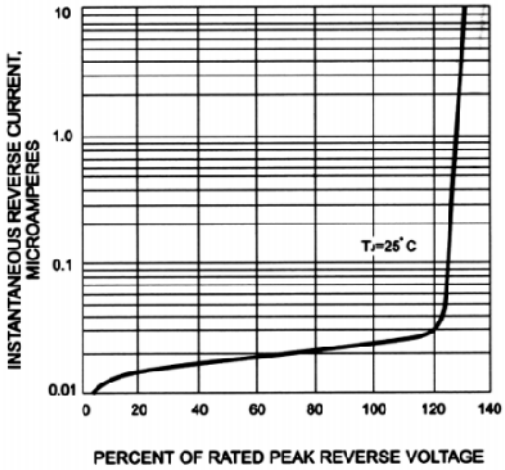
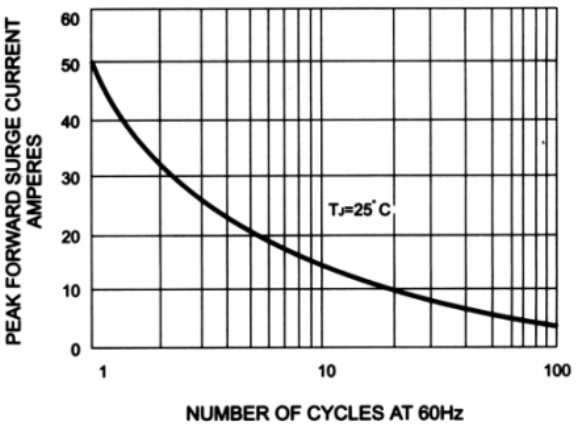
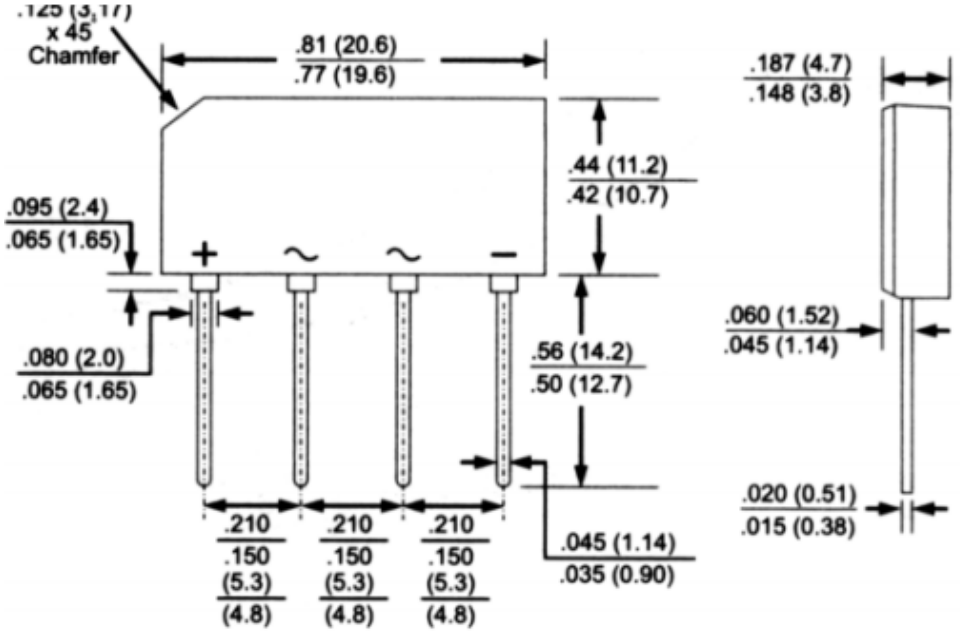


FIG. 4 - MAXIMUM FORWARD SURGE CURRENT



Package outline dimensions



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