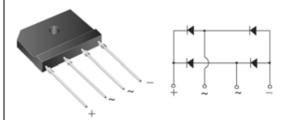


KBJ4005 thru KBJ410. Bridge Rectifiers

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)}	4.0A					
V_{RRM}	50V to 1000V					
I _{FSM}	80A					
I _{RM}	5uA					
V _{FM} at I _F =2.0	1.0					
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)

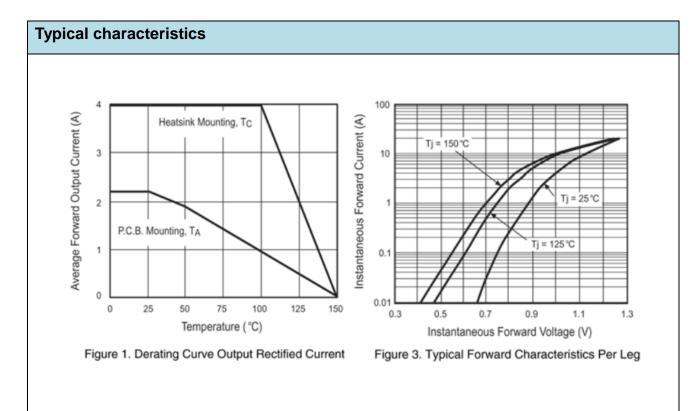
			KBJ							
Parameter		Sym	KBJ 4005	KBJ 401	KBJ 402	KBJ 404	KBJ 406	KBJ 408	KBJ 410	Unit
Max. repetitive peak reverse voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Max. RMS reverse voltage		V _{RMS}	35	70	140	280	420	560	700	V
Max. DC blocking voltage		V _{DC}	50	100	200	400	600	800	1000	V
Max. average forward current		I _{F(AV)}	4.0					Α		
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		I _{FSM}	80.0					Α		
Rating for fusing,1ms ≤ t≤8.3ms		l ² t	26					A ² S		
Max. instantaneous forward voltage drop per diode		V _{FM}	1.0 (2.0)					٧		
Max. instantaneous reverse current at	Ta=25 °C		5							μA
rated DC blocking voltage	Ta=125 °C	I _{RM}	250							μΑ
Operating junction temperature		TJ	-55 ~ + 150					°C		
Storage temperature		T _{STG}	-55 ~ +150						°C	
Typical thermal resistance (Note2,1)		R J-A	26					°C/W		
		R _{J-C}	5							°C/W

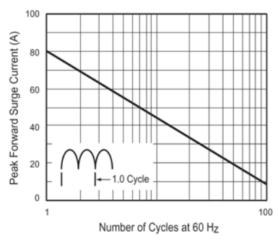
Notes

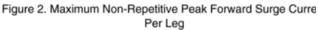
- (1) Unit case mounted on 6.3x6.3x0.15cm thick Al plate heatsink
- (2) Units mounted on P.C.B. with 0.5×0.5 " (13 x 13 mm) copper pads and 0.375" (9.5 mm) lead length



Ordering information (Example)							
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE			
KBJ410							







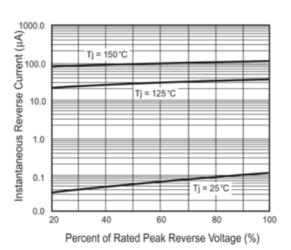
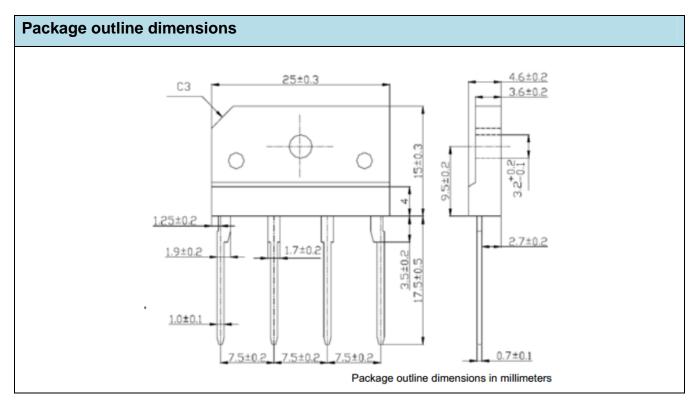


Figure 4. Typical Reverse Characteristics Per Leg





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Rev. A1