

KBJ4005 THRU KBJ410 Bridge Rectifiers

Features

- High efficiency
- Ideal for automated placement
- High surge current capability

Typical Applications

General purpose use in AC/DC bridge full wave rectification for power supply, lighting ballast, battery charger, home appliances, office equipment, and telecommunication applications.

Mechanical Data

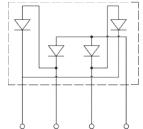
• Package:KBJ

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

• Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Polarity: As marked on body.





■ Maximum Ratings (Ta=25°C Unless otherwise specified)

	Symbol	Unit	KBJ4							
PARAMETER			005	01	02	04	06	08	10	
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000	
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700	
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600	800	1000	
Average Forward Current @Half-sine wave, Resistance load ,with heatsink Tc=108°C		А	4							
Average Forward Current @Half-sine wave, Resistance load ,without heatsink Tc=25°C	lo					2.3				
Forward Surge Current (Non-repetitive) @60HZ sine wave, 1 cycle, Ta=25℃	IFSM	Α	120							
Current squared time @1ms≤t8.3≤ms Ta=25℃,Rating of per diode	l ² t	A ² s	59.7							
Thermal Resistance(Typical) @Between junction and ambient,,without heatsink	R өJ-A	°C/W	30							
Storage Temperature	Tstg	$^{\circ}$	-55 ~ +150							
Junction Temperature	Tj	$^{\circ}$ C	-55 ~ +150							

■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Linit	Conditions	KBJ4							
PARAMETER Symb		Oilit	Conditions	005	01	02	04	06	08	10	
Peak Forward Voltage	VFM	V	I F =2.0A	1.05							
Peak Reverse Current	I _{RRM}	μA	VR =V _{DC} @Ta=25℃	10							
			VR =V _{DC} @Ta=100℃	300							

Revised: 2021-11-29

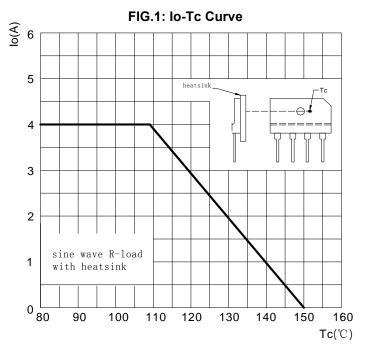


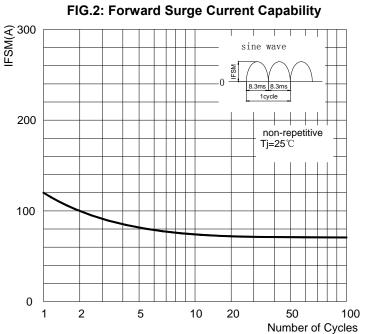


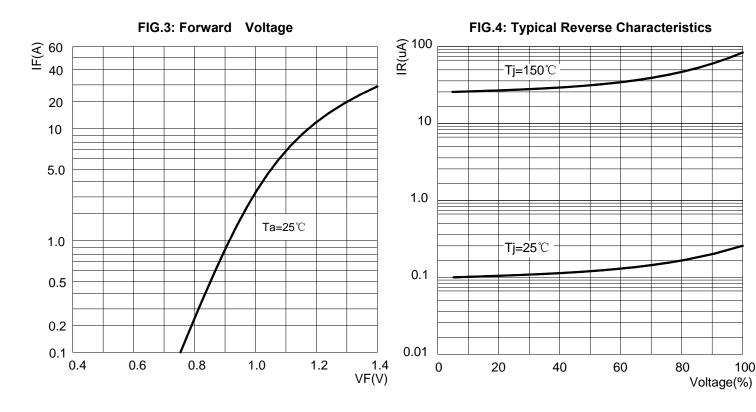


KBJ4005 THRU KBJ410

■ Characteristics (Typical)











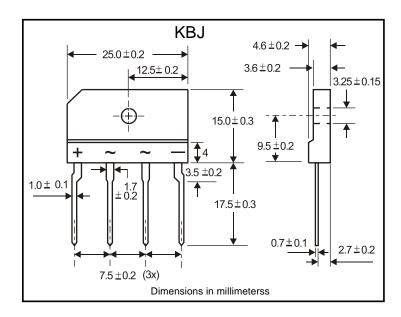


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■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
KBJ4005 THRU KBJ410	KBJ	250	250	2000	Tube	

■ Outline Dimensions



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