

Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Thin single in-line package
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for switching power supply, home appliances, office equipment, industrial automation applications.

Mechanical Data

• Package: 4KBJ

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)

= Maximum Ratings (Ta-23 C Offices of the Wise specified)											
PARAMETER		SYMBOL	UNIT	KBJ20005A	KBJ2001A	KBJ2002A	KBJ2004A	KBJ2006A	KBJ2008A	KBJ2010A	
Device marking code				KBJ20005A	KBJ2001A	KBJ2002A	KBJ2004A	KBJ2006A	KBJ2008A	KBJ2010A	
Maximum Repetitive Peak Reverse Voltage		VRRM	V	50	100	200	400	600	800	1000	
Maximum RMS Voltage		VRMS	٧	35	70	140	280	420	560	700	
Maximum DC blocking Voltage		VDC	V	50	100	200	400	600	800	1000	
Average Rectified Output Current With heatsink T _C =120 °C		Io	А	20							
@60Hz sine wave, R-load	Without heatsink Ta =25℃	.0	^	2.4							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		IFOM	А	300							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		IFSM		600							
Current squared time @1ms≤t≤8.3ms Tj=25°C,rating of per diode		l²t	A ² S		374						
Storage temperature		T _{stg}	°C	-55 ~ +150							
Junction temperature		Tj	°C		-55 ~ + 150						
Dielectric strength @ Terminals to case, AC 1 minute		V _{dis}	KV	2							
Mounting torque @Recommend torque: 5kg·cm		Tor	kg∙cm	8							

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

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBJ20005A KBJ2001A KBJ2002A KBJ2004A KBJ2006A KBJ2008A KBJ2010A				
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=10A	1.0				
Maximum DC reverse current at rated DC blocking voltage per			T _j =25°C 5					
diode	ıK.	μζ	T _j =125℃	100				
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	95				



■Thermal Characteristics (T_a=25°C Unless otherwise specified)

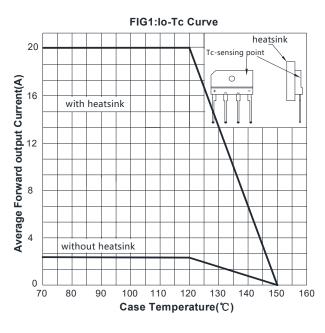
PARAMETER		SYMBOL	UNIT	KBJ20005A	KBJ2001A	KBJ2002A	KBJ2004A	KBJ2006A	KBJ2008A	KBJ2010A
Thermal	Between junction and ambient, Without heatsink	RøJ-A	°C/W		18					
Resistance Between junction and case, With heatsink		RøJ-C	[C/VV	0.8						

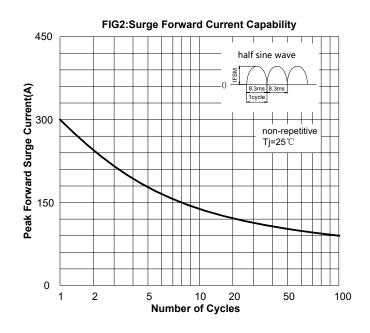
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

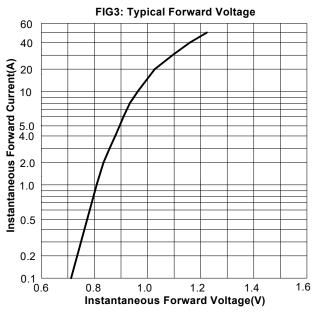
■Ordering Information (Example)

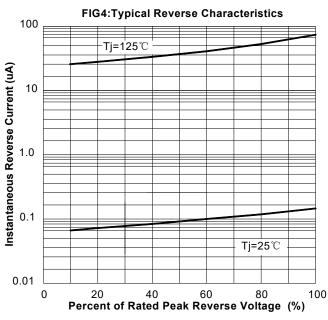
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBJ20005A ~ KBJ2010A	B1	Approximate 4.27	20	1000	2000	Tube

■ Characteristics(Typical)



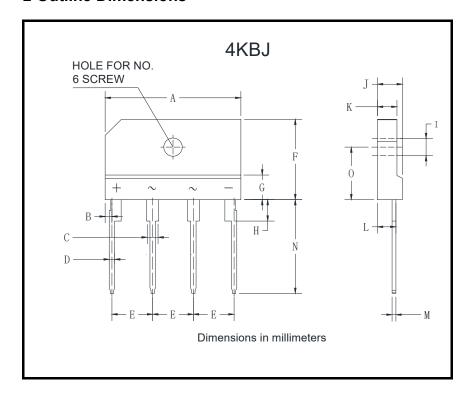








■ Outline Dimensions



4KBJ							
Dim	Min	Max					
Α	24.7	25.3					
В	1.05	1.45					
С	1.7	2.1					
D	0.9	1.1					
E	7.3	7.7					
F	14.7	15.3					
G	3.8	4.2					
Н	3.3	3.7					
I	3.1	3.4					
J	4.4	4.8					
K	3.4	3.8					
L	3.2	3.4					
М	0.6	0.8					
N	17.0	18.0					
0	9.5	10.1					



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