

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)

PARAMETER		SYMBOL	UNIT	KBJ15005	KBJ1501	KBJ1502	KBJ1504	KBJ1506	KBJ1508	KBJ1510	
Device marking code				KBJ15005	KBJ1501	KBJ1502	KBJ1504	KBJ1506	KBJ1508	KBJ1510	
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 Volt	age	VDC	V	50	100	200	400	600	800	1000	
Average Rectified Output	With heatsink T _C =105°C	- Io	Α	15.0							
@60Hz sine wave, R-load	Without heatsink Ta =25℃	10	A	3.6							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave 1 cycle, Tj=25°C			А	220							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		IFSM		440							
Current squared time @1ms≤t≤8.3ms Tj=25°C,rating of per diode		l²t	A ² S	201							
Storage temperature		T _{stg}	°C	-55 ~ +150							
Junction temperature		Tj	$^{\circ}$	-55 ~ + 150							
Dielectric strength @ Terminals to case, AC 1 minute		Vdis	KV	2							
Mounting torque @Recommend torque: 5kg·cm		Tor	kg∙cm	8							

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBJ15005	KBJ1501	KBJ1502	KBJ1504	KBJ1506	KBJ1508	KBJ1510
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=7.5A	1.0						
Maximum DC reverse current at rated DC blocking voltage	IR	۸	T _j =25℃	T _j =25°C 5						
per diode	ır.	μA	T _j =125°C 1		100	0				
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	70						

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

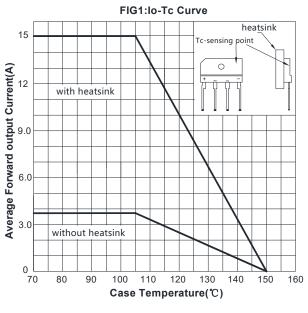
PARAMETER		SYMBOL	UNIT	KBJ15005	KBJ1501	KBJ1502	KBJ1504	KBJ1506	KBJ1508	KBJ1510
Thermal	Between junction and ambient Without heatsink		°C/W	20						
Resistance	Between junction and case, With heatsink	R ₀ J-C	C/VV				1.5			

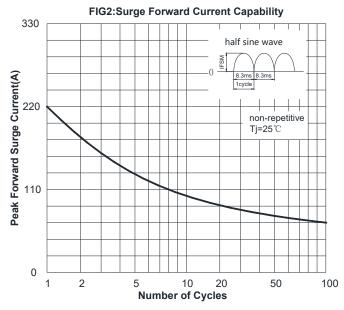
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

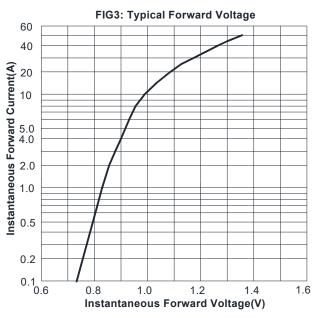
■Ordering Information (Example)

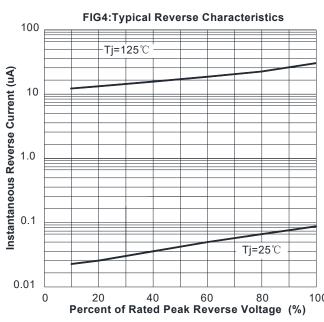
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBJ15005 ~ KBJ1510	B1	Approximate 4.27	20	1000	2000	Tube

■ Characteristics(Typical)





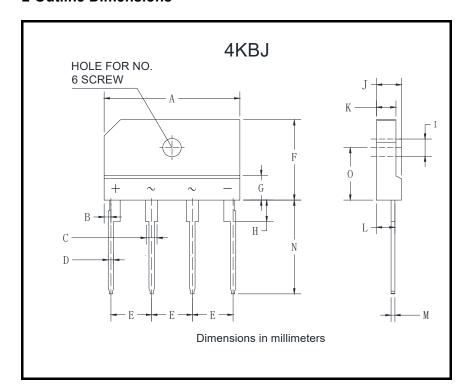






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■ Outline Dimensions



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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