

Bridge Rectifiers

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	KBJ8A	KBJ8B	KBJ8D	KBJ8G	KBJ8J	KBJ8K	KBJ8M
Device marking code				KBJ8A	KBJ8B	KBJ8D	KBJ8G	KBJ8J	KBJ8K	KBJ8M
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	·		Α	8.0						
@60Hz sine wave, R-load	Without heatsink Ta =25℃	- Io	А	3.2						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C			Α	175						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		IFSM		350						
Current squared time @1ms≤t≤8.3ms Tj=25°C,rating of per diode		l ² t	A ² S	127						
Storage temperature		T _{stg}	$^{\circ}$	-55 ~ +150						
Junction temperature		Tj	°C	-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)

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBJ8A	KBJ8B	KBJ8D	KBJ8G	KBJ8J	KBJ8K	KBJ8M
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=4.0A	1.0						
Maximum DC reverse current at rated DC blocking voltage		μA	T _j =25°C 5							
per diode	11.	μΛ	T _j =125℃				100			
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C							

KBJ8A THRU KBJ8M

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

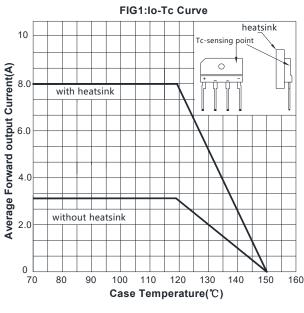
PARAMETER		SYMBOL	UNIT	KBJ8A	KBJ8B	KBJ8D	KBJ8G	KBJ8J	KBJ8K	KBJ8M	
Between junction and ambient, Without heatsink		R ₀ J-A	°C/W		20						
Resistance Between junction and case, With heatsink		R ₀ J-C	C/VV	2							

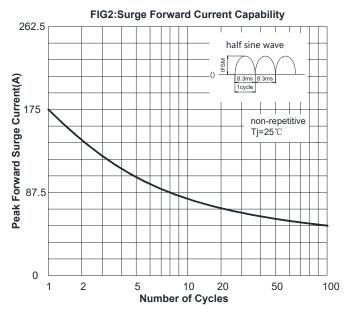
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

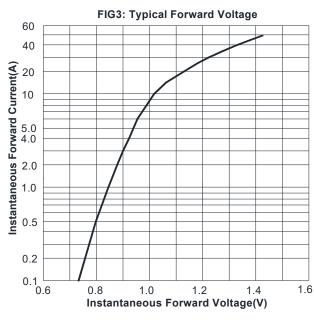
■Ordering Information (Example)

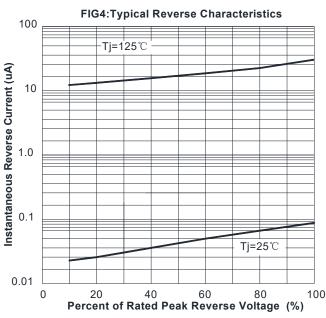
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBJ8A ~ KBJ8M	B1	Approximate 3.93	20	1000	2000	Tube

■ Characteristics(Typical)





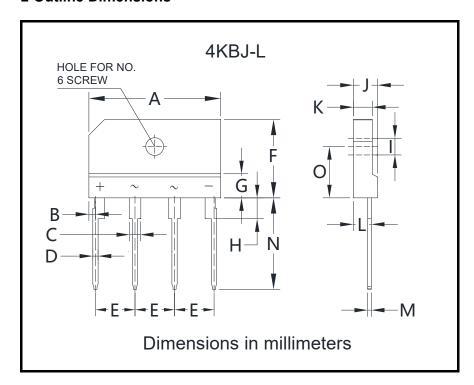






KBJ8A THRU KBJ8M

■ Outline Dimensions



4KBJ-L						
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	2.95	3.25				
М	0.35	0.65				
N	17.0	18.0				
0	9.5	10.1				



KBJ8A THRU KBJ8M

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