

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)

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PARAMETER		SYMBOL	UNIT	KBJ20A	KBJ20B	KBJ20D	KBJ20G	KBJ20J	KBJ20K	KBJ20M	
Device marking code				KBJ20A	KBJ20B	KBJ20D	KBJ20G	KBJ20J	KBJ20K	KBJ20M	
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 Rectified Output With heatsink T _C =110 °C		lo.		20							
Current @60Hz sine wave, R-load	Without heatsink T _a =25°C	lo	Α	3.6							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave 1 cycle, Ti=25°C		1	Α	250							
Forward Surge Current (Non-repetitive) @1ms square wave,1 cycle, Tj=25°C		IFSM		500							
Current squared time @1ms≤t≤8.3ms Tj=25°C,rating of per diode		I ² t	A ² S	259							
Storage temperature		T _{stg}	°C	-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 (T_a=25°C Unless otherwise specified)

		1								
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBJ20A	KBJ20B	KBJ20D	KBJ20G	KBJ20J	KBJ20K	KBJ20M
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=10A	1.0						
Maximum DC reverse current at rated DC blocking voltage per	IR	μA	T _j =25°C 5							
diode	ır.	μΑ	T _j =125°C		100					
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C				77			

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

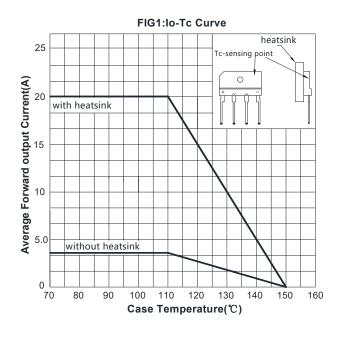
	PARAMETER	SYMBOL	UNIT	KBJ20A	KBJ20B	KBJ20D	KBJ20G	KBJ20J	KBJ20K	KBJ20M
Thermal Resistance Between junction and ambie Without heatsink Between junction and case, With heatsink		R ₀ J-A	°C/W			20				
		R ₀ J-C	C/VV	1.5						

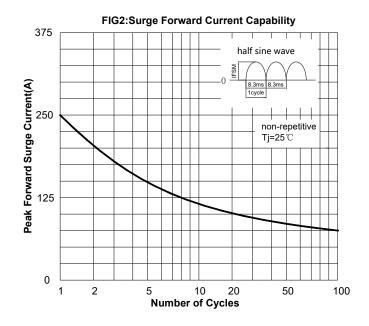
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

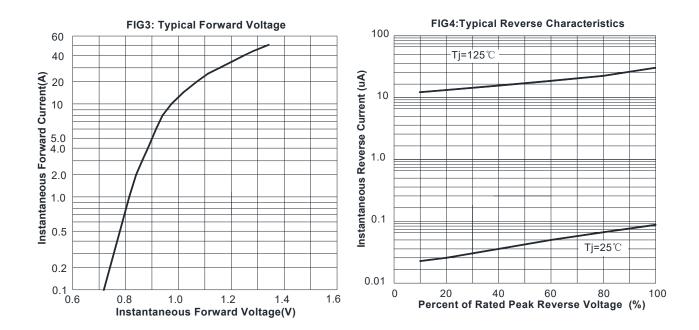
■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBJ20A ~ KBJ20M	B1	Approximate 3.93	20	1000	2000	Tube

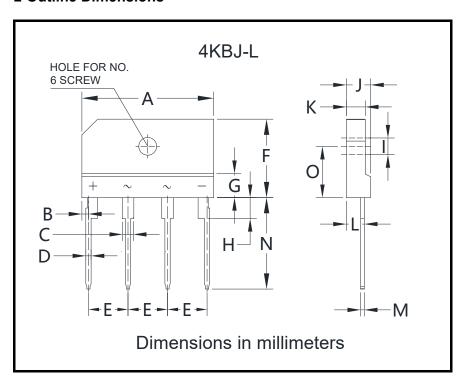
■ Characteristics(Typical)







■ 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					
Е	7.3	7.7					
F	14.7	15.3					
G	3.8	4.2					
Н	3.3	3.7					
1	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					



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