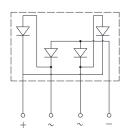




Bridge Rectifiers





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	KBJ1512	
Device marking code			KBJ1512	
Maximum Repetitive Peak Reverse Voltag	e VRRM	V	1200	
Maximum RMS Voltage	VRMS	V	840	
Maximum DC blocking Voltage	VDC	V	1200	
Average Rectified Output Current With heatsing T _C =100°C	10	А	15	
@60Hz sine wave, R-load Without heat T _a =25°C	sink		3.3	
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 diod	de l ² t	A ² S	201	
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 (Ta=25°C Unless otherwise specified)

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBJ1512			
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=7.5A	1.1			
Maximum DC reverse current at rated DC blocking voltage per diode	IR	μΑ	T _j =25℃	5			
			T _j =125°C	100			
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	64			



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

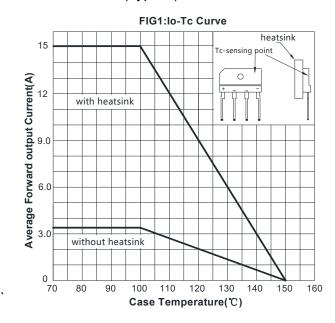
	PARAMETER	SYMBOL	UNIT	KBJ1512
Thermal	Between junction and ambient, Without heatsink	R ₀ J-A	RθJ-A °C/W	20.0
Resistance	Between junction and case, With heatsink	R ₀ J-C		1.5

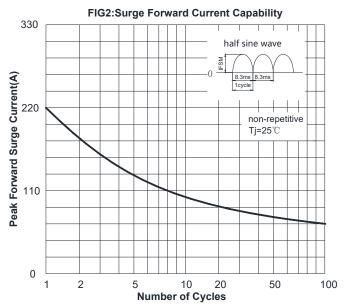
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

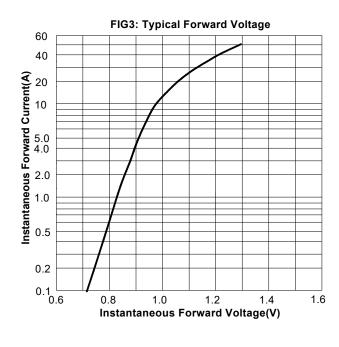
■Ordering Information (Example)

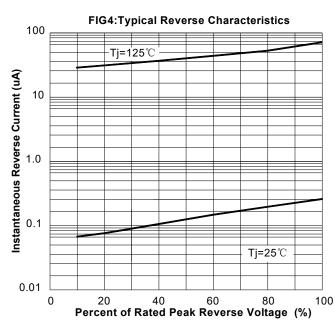
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBJ1512	B1	Approximate 4.27	20	1000	2000	Tube

■ Characteristics (Typical)





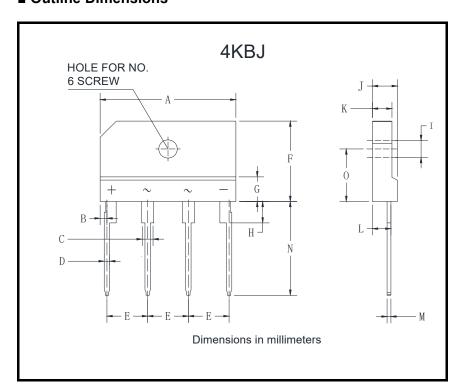








■ Outline Dimensions



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			



KBJ1512

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