

# **Bridge Rectifiers**

#### Features

- UL recognition, file #E230084
- 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	KBJ10005	KBJ1001	KBJ1002	KBJ1004	KBJ1006	KBJ1008	KBJ1010	
Device marking code			KBJ10005	KBJ1001	KBJ1002	KBJ1004	KBJ1006	KBJ1008	KBJ1010	
Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000	
Average Rectified Output Current @60Hz sine $T_c = 110^{\circ}C$	- 10	A	10.0							
wave, R-load, Without heatsink $T_a = 25^{\circ}C$		~	3.6							
Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, Tj=25 $^\circ\!\!\!\!^\circ$	IFSM	А	175							
Current squared time @1ms≤t≤8.3ms Tj=25℃,rating of per diode	l <sup>2</sup> t	A <sup>2</sup> S	<sup>2</sup> S 127							
Storage Temperature	T <sub>stg</sub>	°C	-55 ~+150							
Junction Temperature	Тј	°C	-55 ~+150							
Dielectric strength	Vdis	KV	2							
@ terminals to case, AC 1 minute	VUIS		2							
Mounting torque	Tor	kg•cm				8				
@recommend torque: 5kg · cm		Ŭ								

#### ■Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBJ10005	KBJ1001	KBJ1002	KBJ1004	KBJ1006	KBJ1008	KBJ1010
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=5.0A	1.00						
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	VRM=VRRM	5						



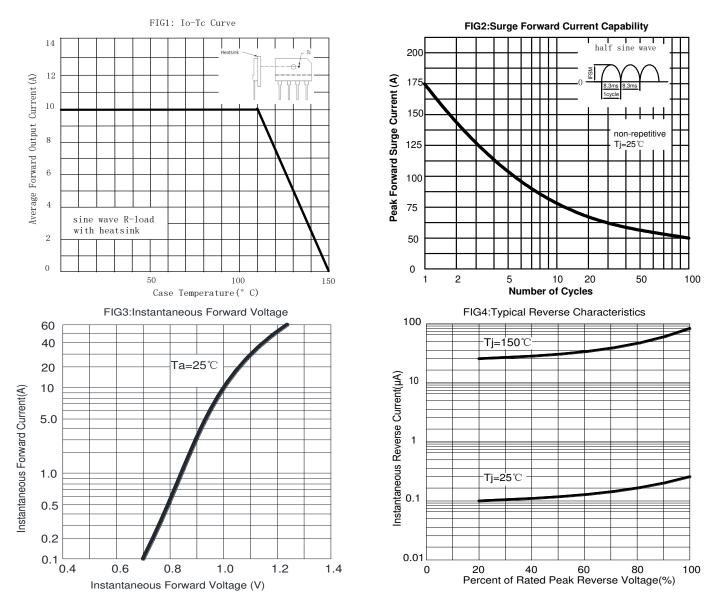
#### ■Thermal Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PA	RAMETER	SYMBOL	UNIT	KBJ10005	KBJ1001	KBJ1002	KBJ1004	KBJ1006	KBJ1008	KBJ1010
The merel	Between junction and ambient, Without heatsink	RθJ-A					25.0			
Thermal Resistance	Between junction and case, With heatsink	RθJ-C	°C/W				2.3			

### Ordering Information (Example)

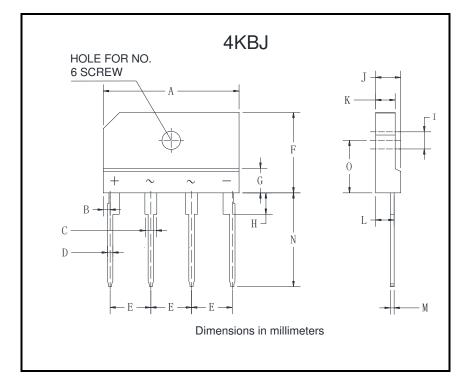
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBJ10005~KBJ1010	B1	Approximate 4.27	20	1000	2000	Tube

# 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				

3/4

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