

# **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**

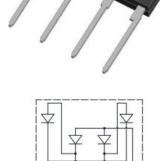
• Package: 4KBJ

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	KBJ6005	KBJ601	KBJ602	KBJ604	KBJ606	KBJ608	KBJ610
Device marking code			KBJ6005	KBJ601	KBJ602	KBJ604	KBJ606	KBJ608	KBJ610
Repetitive Peak Reverse Voltage	VRRM	٧	50	100	200	400	600	800	1000
Average Rectified Output  Current @60Hz sine  With heatsink  T <sub>c</sub> =110 °C	- IO	Α	6.0						
wave, R-load, Without heatsink $T_a = 25^{\circ}C$		A	2.8						
Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, Tj=25°C	IFSM	Α	150						
Current squared time @1ms≤t≤8.3ms Tj=25°C,rating of per diode	l <sup>2</sup> t	A <sup>2</sup> S	93						
Storage Temperature	T <sub>stg</sub>	$^{\circ}\!$	-55 ~+150						
Junction Temperature	Tj	°C	-55 ~+150						
Dielectric strength	Vdis	KV	2						
@ terminals to case, AC 1 minute	vuis	IXV	2						
Mounting torque	Tor	kg • cm				8			
@recommend torque: 5kg • cm		g cili							

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

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBJ6005	KBJ601	KBJ602	KBJ604	KBJ606	KBJ608	KBJ610
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=3.0A	1.00						
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	VRM=VRRM 5							

## **KBJ6005 THRU KBJ610**

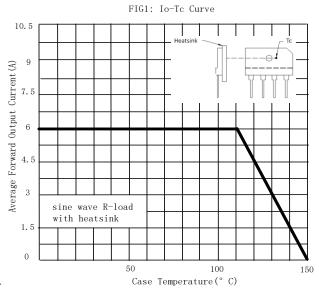
**■Thermal Characteristics** (T<sub>a</sub>=25°C Unless otherwise specified)

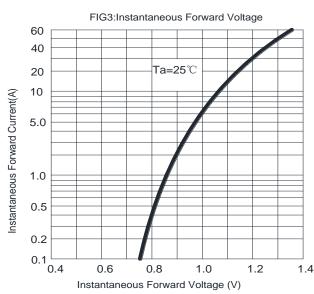
P.A	RAMETER	SYMBOL	UNIT	KBJ6005	KBJ601	KBJ602	KBJ604	KBJ606	KBJ608	KBJ610
Thomas	Between junction and ambient, Without heatsink	RøJ-A					26.0			
Thermal Resistance	Between junction and case, With heatsink	RøJ-C	°M				3.4			

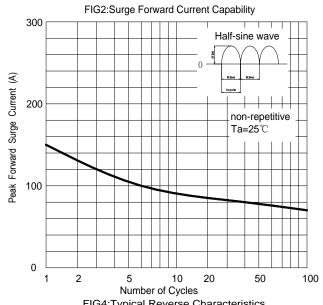
**■**Ordering Information (Example)

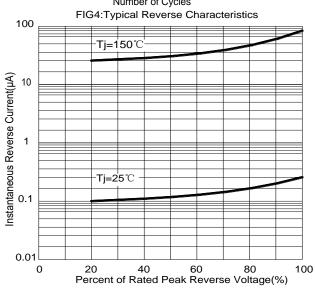
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBJ6005~KBJ610	B1	Approximate 4.27	20	1000	2000	Tube

## **■** Characteristics(Typical)





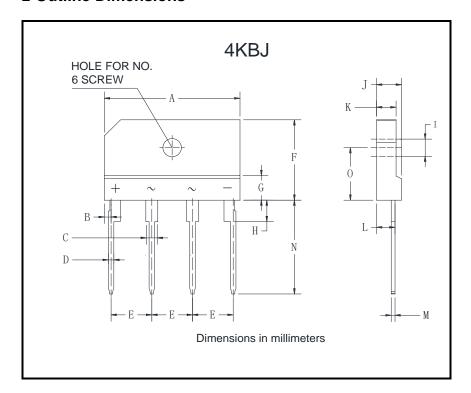








### **■ Outline Dimensions**



4KBJ						
Dim	Min	Max				
Α	24.7	25.3				
В	1.05	1.45				
С	1.7	2.1				
D	0.9	1.1				
Е	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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