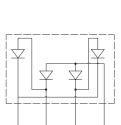


# **Bridge Rectifiers**





#### **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, -

• **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
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	· 116 = 115 (		А	6.0						
@60Hz sine wave, R-load	Without heatsink Ta =25℃	- IO	A	2.8						
•	Forward Surge Current (Non-repetitive) @60Hz Half-sine wave 1 cycle, Tj=25°C		A	150						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		IFSM		280						
Current squared time @1ms≤t≤8.3ms Tj=25°C,rating of per diode		l <sup>2</sup> t	A <sup>2</sup> S	78.4						
Storage temperature		T <sub>stg</sub>	°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)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBJ6005	KBJ601	KBJ602	KBJ604	KBJ606	KBJ608	KBJ610
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=3.0A	1.0						
Maximum DC reverse current at rated DC blocking voltage		μA	T <sub>j</sub> =25°C	5						
at rated DC blocking voltage per diode	ır.	μА	T <sub>j</sub> =125°C	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C							



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

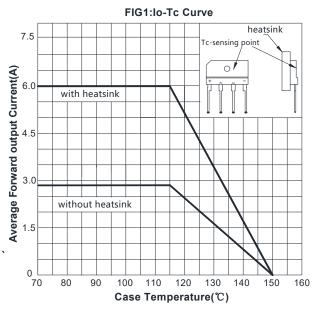
PARAMETER		SYMBOL	UNIT	KBJ6005	KBJ601	KBJ602	KBJ604	KBJ606	KBJ608	KBJ610
Thermal			°C/W	20						
Resistance			C/VV	3						

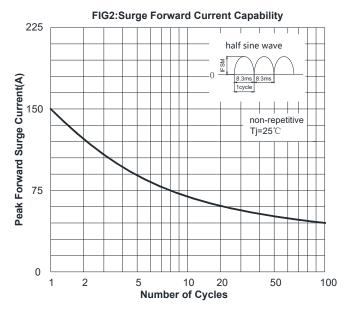
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

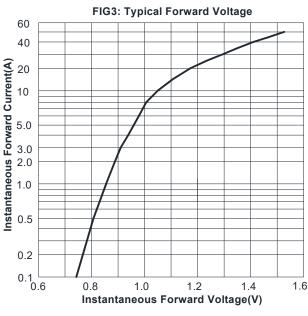
**■Ordering Information** (Example)

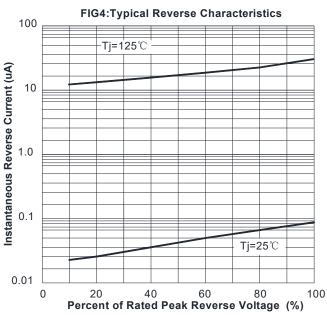
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBJ6005 ~ KBJ610	B1	Approximate 4.27	20	1000	2000	Tube

### **■ Characteristics**(Typical)



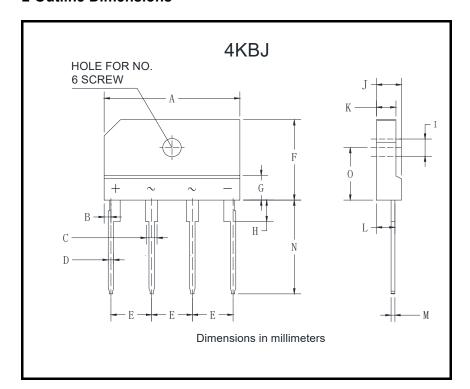








### **■ Outline Dimensions**



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



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