

# **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**

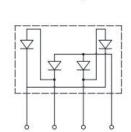
• Package: 4KBJ

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	KBJ4005	KBJ401	KBJ402	KBJ404	KBJ406	KBJ408	KBJ410
Device marking code			KBJ4005	KBJ401	KBJ402	KBJ404	KBJ406	KBJ408	KBJ410
Repetitive Peak Reverse Voltage	VRRM	٧	50	100	200	400	600	800	1000
Average Rectified Output $T_c = 110^{\circ}C$ With heatsink $T_c = 110^{\circ}C$	- IO	Α	4.0						
wave, R-load Without heatsink $T_a = 25^{\circ}\mathbb{C}$	.0	A	2.3						
Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, Tj=25°C	IFSM	Α	135						
Current squared time @1ms≤t≤8.3ms, Tj=25°C, rating of per diode	e I <sup>2</sup> t A <sup>2</sup> S				75				
Storage Temperature	T <sub>stg</sub>	°	-55 ~+150						
Junction Temperature	Tj	$^{\circ}$	-55 ~+150						
Dielectric strength	Vdis	KV	2						
@ terminals to case, AC 1 minute	vuis	i i v							
Mounting torque	Tor	kg • cm				8			
@recommend torque: 5kg • cm	101	ing cili	ļ						

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

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBJ4005	KBJ401	KBJ402	KBJ404	KBJ406	KBJ408	KBJ410
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=2.0A			1.00				
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	VRM=VRRM	5						



## **KBJ4005 THRU KBJ410**

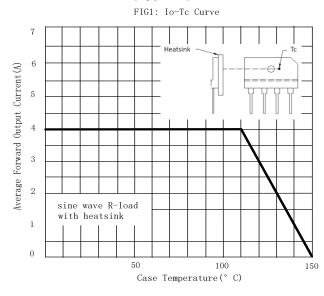
■Thermal Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

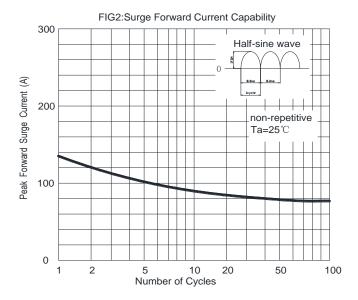
P.A	RAMETER	SYMBOL	UNIT	KBJ4005	KBJ401	KBJ402	KBJ404	KBJ406	KBJ408	KBJ410
Thomas	Between junction and ambient, Without heatsink	RøJ-A		30.0						
Thermal Resistance	Between junction and case, With heatsink	RøJ-C	°CM				5.5			

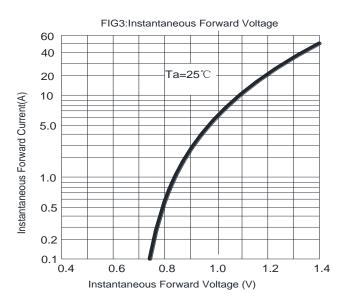
**■Ordering Information** (Example)

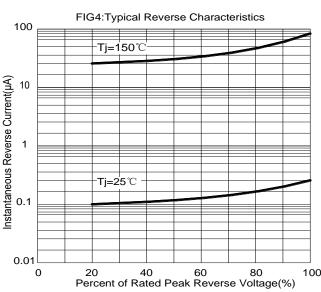
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
KBJ4005~KBJ410	B1	Approximate 4.27	20	1000	2000	Tube	

### **■ Characteristics** (Typical)





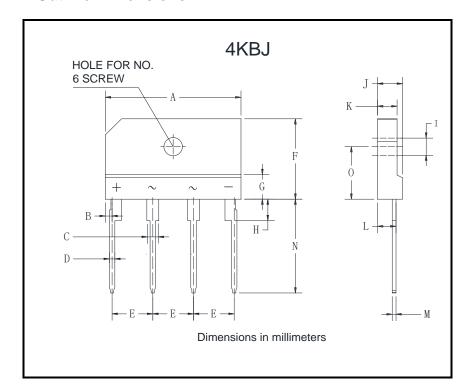






# **KBJ4005 THRU KBJ410**

### **■ 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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