

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	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine With heatsink T _c =110°C	- Io	Α	6						
wave, R-load, $T_a = 25^{\circ}$		A	2.8						
Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, Tj=25℃	IFSM	А	150						
Current squared time @1ms≤t≤8.3ms Tj=25°C,rating of per diode	l ² t	A ² S	93						
Storage Temperature	T _{stg}	$^{\circ}$	-55 ~+150						
Junction Temperature	Tj	$^{\circ}$	-55 ~+150						
Dielectric strength	Vdis	KV	2						
@ terminals to case, AC 1 minute	Vais	127							
Mounting torque @recommend torque: 5kg • cm	Tor	kg • cm	8						

■Electrical Characteristics (T_a=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	<	IFM=3A				1.00			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	5						

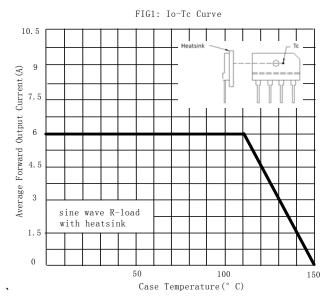
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

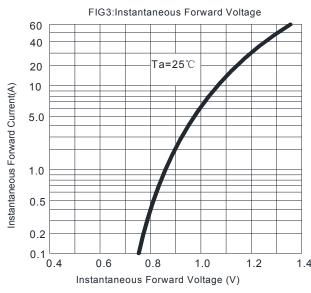
P.A	RAMETER	SYMBOL	UNIT	KBJ6005	KBJ601	KBJ602	KBJ604	KBJ606	KBJ608	KBJ610
Thormal	Between junction and ambient, Without heatsink	R _θ Ј-А					26			
Thermal Resistance	Between junction and case, With heatsink	RөJ-С	°C/W				3.4			

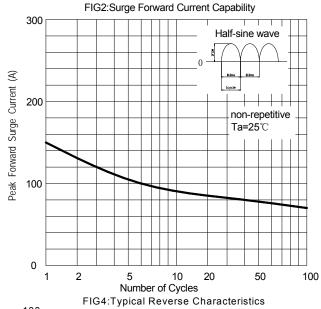
■Ordering Information (Example)

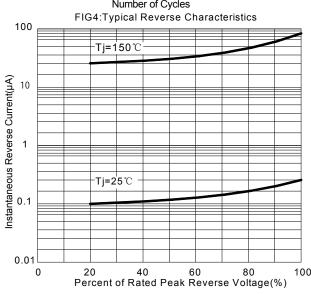
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBJ6005~KBJ610	B1	Approximate 4.27	20	1000	2000	Tube
KBJ6005~KBJ610	A1	Approximate 4.27	300	300	3000	Paper Box

■ Characteristics(Typical)



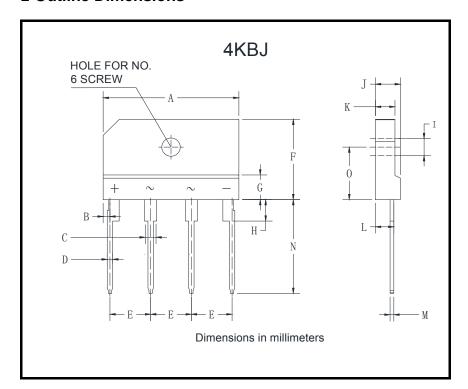








■ Outline Dimensions



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				
M	0.6	0.8				
N	17.0	18.0				
0	9.5	10.1				



Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.21yangjie.com, or consult your nearest Yangjie's sales office for further assistance.