







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 _c =110°C	- IO	А	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	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}	°	-55 ~+150						
Junction Temperature	Tj	$^{\circ}$	-55 ~+150						
Dielectric strength	Vdis	KV	2						
@ terminals to case, AC 1 minute	vuis	ΙΛV	2						
Mounting torque	Tor	kg • cm				8			
@recommend torque: 5kg • cm	7 01	Ng OIII							

■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	V	IFM=3.0A				1.00			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	VRM=VRRM				5			

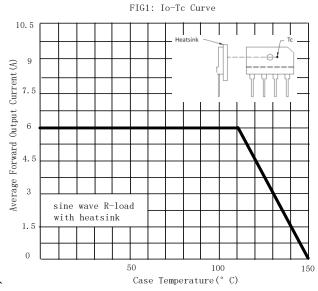
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

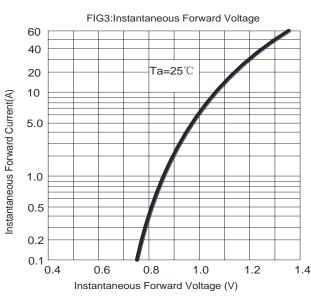
P.A	RAMETER	SYMBOL	UNIT	KBJ6005	KBJ601	KBJ602	KBJ604	KBJ606	KBJ608	KBJ610
Between junction and ambient, Without heatsink		RøJ-A		26.0						
Thermal Resistance	Between junction and case, With heatsink	RøJ-C	°CM				3.4			

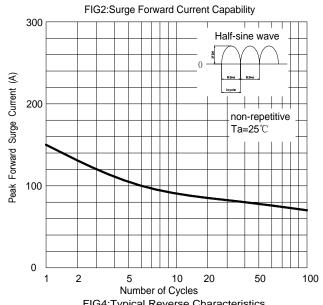
■Ordering Information (Example)

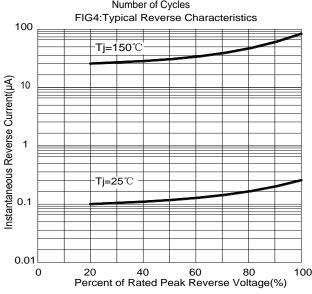
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
KBJ6005~KBJ610	B1	Approximate 4.27	20	1000	2000	Tube	

■ Characteristics(Typical)



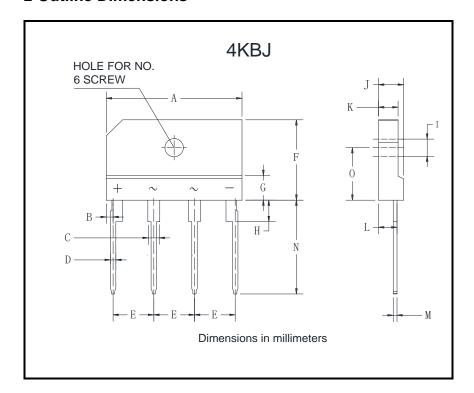








■ Outline Dimensions



	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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