

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, 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)

PARAME	ETER	SYMBOL	UNIT	KBJ4005A	KBJ401A	KBJ402A	KBJ404A	KBJ406A	KBJ408A	KBJ410A
Device marking code				KBJ4005A	KBJ401A	KBJ402A	KBJ404A	KBJ406A	KBJ408A	KBJ410A
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 Voltage		VDC	V	50	100	200	400	600	800	1000
Average Rectified With heatsink		2	_	4.0						
Output Current@60Hz sine wave, R-load	Without heatsink Ta =25℃	IO	A	2.6						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		IFSM	A	150						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		IFSIVI		280						
Current squared time @1ms≤t≤8.3ms, Tj=25°C, rating of per diode		l ² t	A ² S	78.4						
Storage temperature		Tstg	°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	KBJ4005AKBJ401AKBJ402AKBJ404AKBJ406AKBJ408AKBJ410A				
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=2.0A	1.0				
Maximum DC reverse current at rated DC blocking voltage per	IR	uА	Tj =25℃	5				
diode		μΑ	Tj =125℃	100				
		pF	Measured at 1MHz and					
Typical junction capacitance	Cj		Applied Reverse Voltage of 4.0 V.D.C	45				



$\blacksquare Thermal \ Characteristics \ (T_a=25^{\circ}C \ Unless \ otherwise \ specified)$

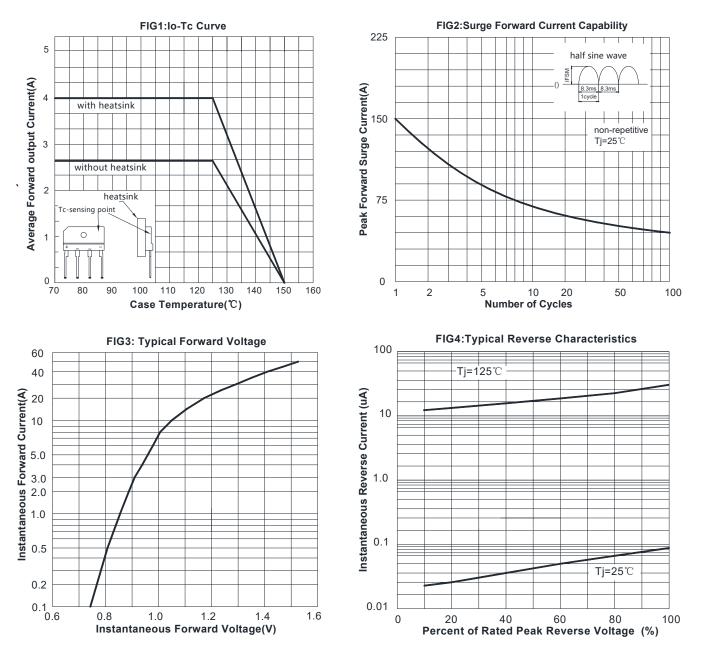
PARAMETER		SYMBOL	UNIT	KBJ4005A	KBJ401A	KBJ402A	KBJ404A	KBJ406A	KBJ408A	KBJ410A
	Between junction and ambient, al Without heatsink		°C/W	20						
Resistance Between junction and case, With heatsink		Røj-C	C/V	3						

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

■Ordering Information (Example)

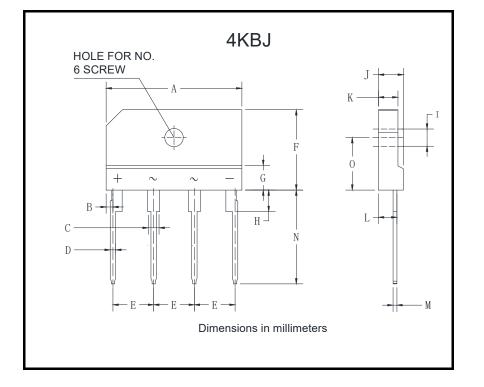
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBJ4005A ~ KBJ410A	B1	Approximate 4.27	20	1000	2000	Tube

Characteristics (Typical)





Outline Dimensions



4KBJ							
Dim	Min	Max					
А	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					
К	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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KBJ4005A THRU KBJ410A

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