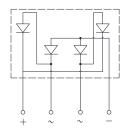




Bridge Rectifiers





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)

PARAMETER		SYMBOL	UNIT	KBJ4005	KBJ401	KBJ402	KBJ404	KBJ406	KBJ408	KBJ410	
Device marking code				KBJ4005	KBJ401	KBJ402	KBJ404	KBJ406	KBJ408	KBJ410	
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 Volta	ge	VDC	V	50	100	200	400	600	800	1000	
Average Rectified Output	With heatsink T _C =125°C	- Io	Α	4.0							
@60Hz sine wave, R-load	Without heatsink Ta =25°C		ζ	2.6							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C			A	135							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		IFSM		270							
Current squared time @1ms≤t≤8.3ms, Tj=25°C, rating of per diode		l ² t	A ² S	75.6							
Storage temperature		T _{stg}	°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)

The other of the total of the t										
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBJ4005	KBJ401	KBJ402	KBJ404	KBJ406	KBJ408	KBJ410
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=2.0A	1.0						
Maximum DC reverse current at rated DC blocking voltage	IR	μА	T _j =25℃	T _j =25°C 5						
per diode	111		T _j =125℃	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	38						

KBJ4005 THRU KBJ410

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

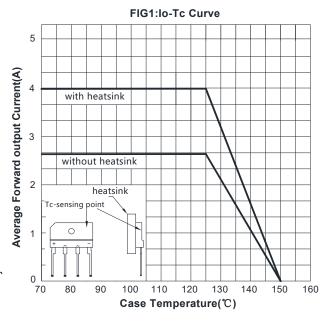
PARAMETER		SYMBOL	UNIT	KBJ4005	KBJ401	KBJ402	KBJ404	KBJ406	KBJ408	KBJ410
Between junction and ambient Without heatsink		R ₀ J-A	°C/W	20						
Resistance	Between junction and case, With heatsink	R ₀ J-C	C/VV				3			

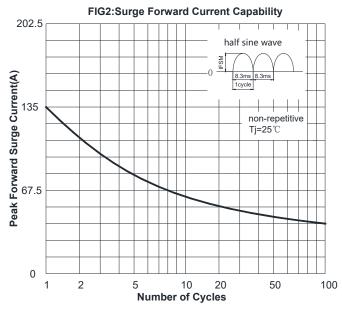
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

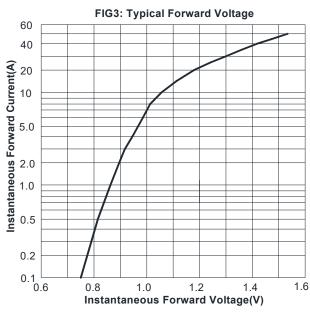
■Ordering Information (Example)

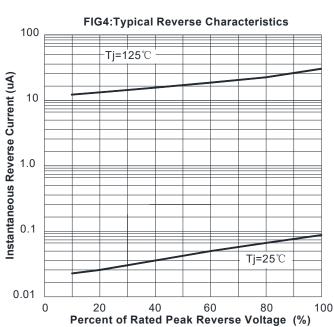
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBJ4005 ~ KBJ410	B1	Approximate 4.27	20	1000	2000	Tube

■ Characteristics (Typical)





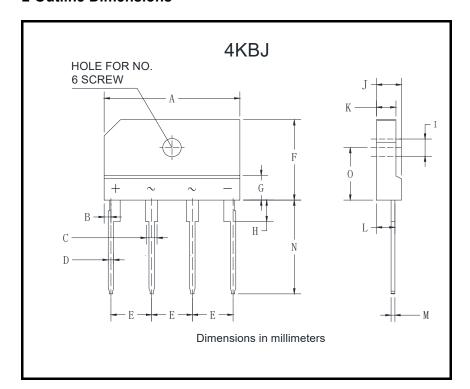






KBJ4005 THRU KBJ410

■ 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				
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				



KBJ4005 THRU KBJ410

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.