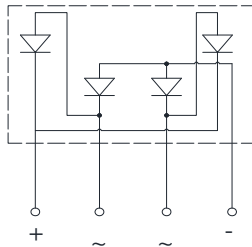
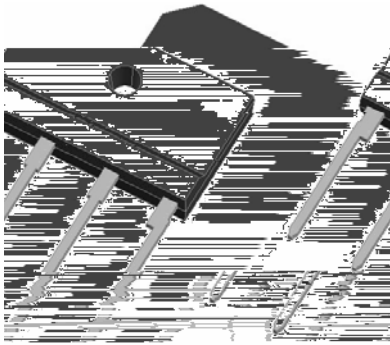




Bridge Rectifiers



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 ($T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	KBJ20005A	KBJ2001A	KBJ2002A	KBJ2004A	KBJ2006A	KBJ2008A	KBJ2010A
Device marking code			KBJ20005A	KBJ2001A	KBJ2002A	KBJ2004A	KBJ2006A	KBJ2008A	KBJ2010A
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V_{DC}	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load	With heatsink $T_C=120$	I_O	A	20					
	Without heatsink $T_a=25$			2.4					
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_j=25$	IFSM	A	300						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25$			600						
Current squared time @1ms t 8.3ms $T_j=25$, rating of per diode	I^2t	A^2S	374						
Storage temperature	T_{stg}		-55 ~ +150						
Junction temperature	T_j		-55 ~ +150						
Dielectric strength @ Terminals to case, AC 1 minute	V_{dis}	KV	2						
Mounting torque @Recommend torque 5kg cm	Tor	kg cm	8						

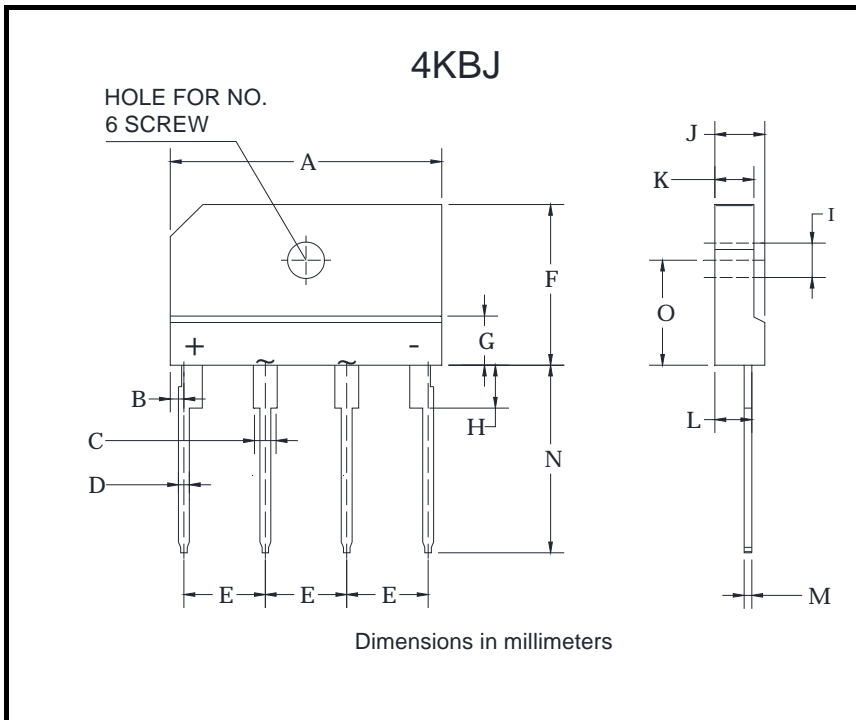
Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBJ20005A	KBJ2001A	KBJ2002A	KBJ2004A	KBJ2006A	KBJ2008A	KBJ2010A
Maximum instantaneous forward voltage drop per diode	V_F	V	IFM=10A	1.0						
Maximum DC reverse current at rated DC blocking voltage per diode	IR	μA	$T_j=25$	5						
			$T_j=125$	100						
Typical junction capacitance	C_j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	95						



KBJ20005A THRU KBJ2010A

Outline Dimensions



4KBJ		
Dim	Min	Max
A	24.7	25.3
B	1.05	1.45
C	1.7	2.1
D	0.9	1.1
E	7.3	7.7
F	14.7	15.3
G	3.8	4.2
H	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
O	9.5	10.1



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