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

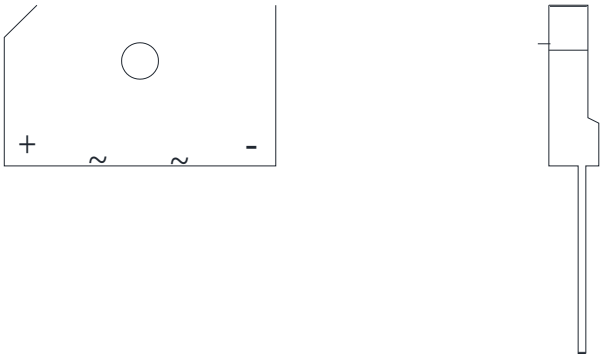
PARAMETER		SYMBOL	UNIT	KBJ1512
Device marking code				KBJ1512
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	V	1200
Maximum RMS Voltage		V_{RMS}	V	840
Maximum DC blocking Voltage		V_{DC}	V	1200
Average Rectified Output Current @60Hz sine wave, R-load	With heatsink T_C =100	I_O	A	15
	Without heatsink T_a =25			3.3
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25		I_{FSM}	A	220
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25				440
Current squared time @1ms≤t≤8.3ms, Tj=25 , rating of per diode		I^2t	A^2S	201
Storage temperature		T_{stg}		-55 ~ +150
Junction temperature		T_j		-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 T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBJ1512
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=7.5A	1.1
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j	

■ Outline Dimensions

4KBJ



Dimensions in millimeters

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The product listed herei