Elektronische Bauelemente

KBJL15J~KBJL15M

Voltage 600~1000V

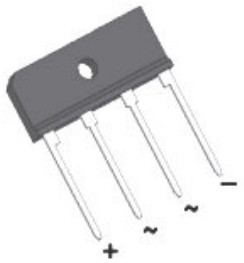
15.0 Amp Glass Passivated Bridge Rectifiers

RoHS compliant product

FEATURES

- Thin Single In-Line Package
- Ideal for Printed Circuit Boards
- Glass Passivated Chip Junction
- Low Profile Package
- High Surge Current Capability
- Plastic Package has Underwrites Laboratory Flammability Classification 94V-0

KBJL

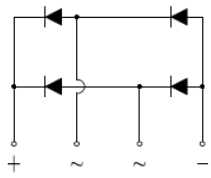


MECHANICAL DATA

- Case: KBJL
  Epoxy meets UL-94V-0 Flammability Rating
- Terminals: Matte Tin Plated Leads, Solderable per J-STD-002 and JESD22-B102, E3 Suffix for Customer Grade, meets JESD 201 Class 1A Whisker Test
- High Temperature Soldering Guaranteed:
  Solder Dip 270°C, 10seconds
- Polarity: As Marked on Body

ORDER INFORMATION

Part Number	Type
KBJL15J~KBJL15M	Lead (Pb)-free
KBJL15JE~KBJL15ME	Lead (Pb)-free and Halogen-free



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25℃ ambient temperature unless otherwis e specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Ratings			Unit
			KBJL15J	KBJL15K	KBJL15M	
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	600	800	1000	V
Maximum RMS Voltage		V_{RMS}	420	560	700	V
Maximum DC Blocking Voltage		V_{DC}	600	800	1000	V
Maximum Average Forward Rectified Output Current	T_C=110℃ [1]	I_F	15			A
	T_A=25℃ [2]		3.2			A
Peak Forward Surge Current, 8.3ms single sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	240			A
Rating for Fusing @t<8.3ms		I^2t	240			A^2S
Maximum Instantaneous Forward Voltage Drop per leg @7.5A		V_F	1			V
Maximum DC Reverse Current @Rated DC Blocking Voltage per leg	T_A=25℃	I_R	5			μA
	T_A=125℃		150			μA
Typical Thermal Resistance, Junction-Ambient [2]		$R_{\theta JA}$	25			℃/W
Typical Thermal Resistance, Junction-Case [1 3]		$R_{\theta JC}$	2.5			℃/W
Operating Junction & Storage Temperature Range		T_J, T_{STG}	-55~150			℃

Notes:

1. Unit case mounted on Al plate heatsink.
2. Units mounted on PCB without heatsink.
3. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw.

RATINGS AND CHARACTERISTIC CURVES

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

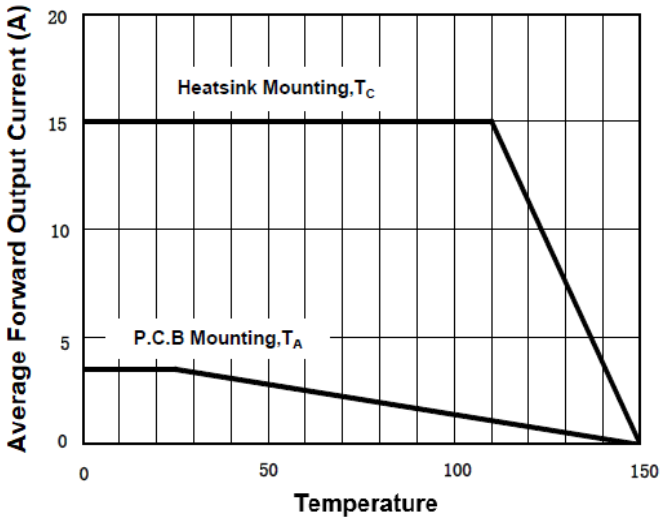


FIG.2-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT

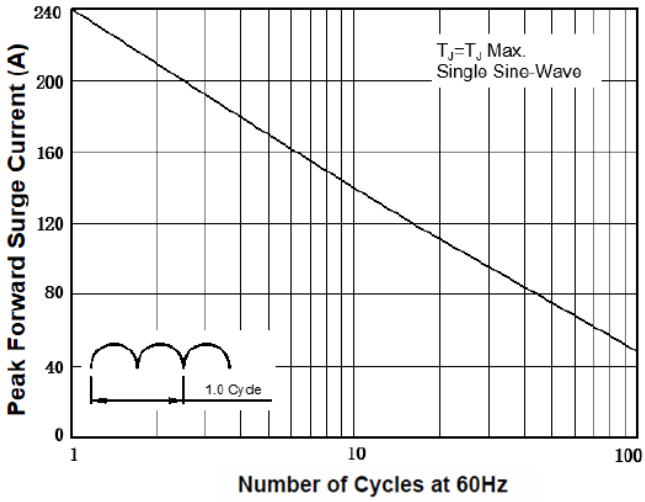


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

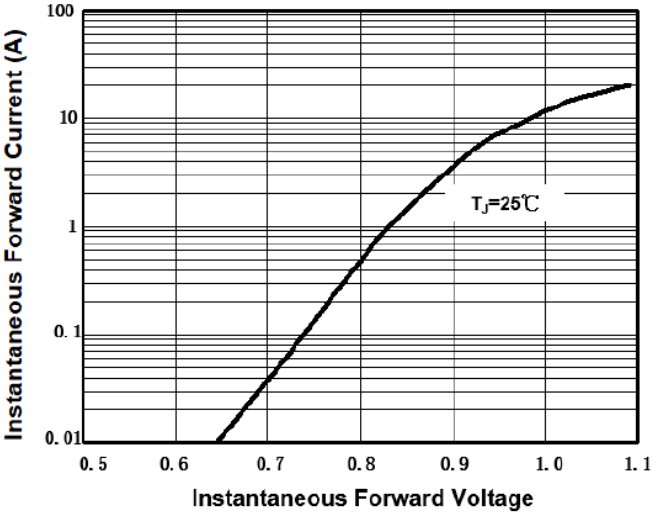
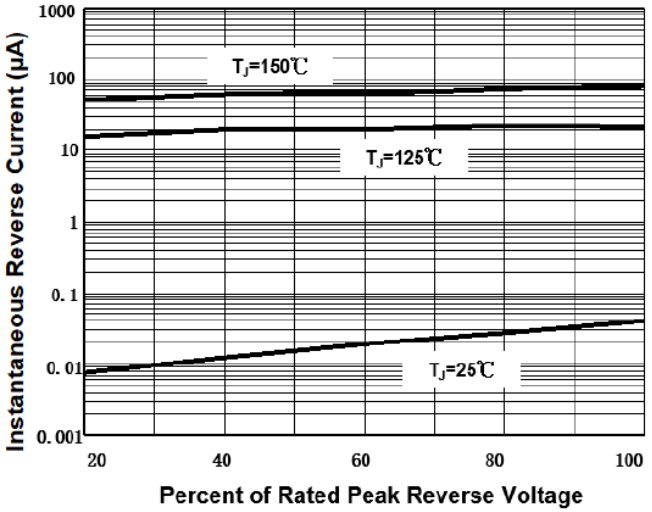


FIG.4-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS



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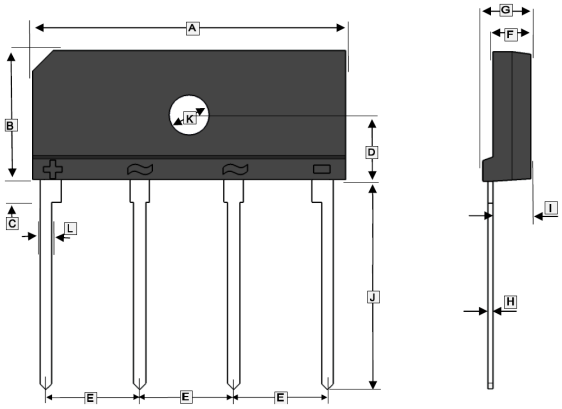
PACKAGE OUTLINE DIMENSIONS

KBJL



REF.	Millimeter	
	Min.	Max.
A	24.70	25.30
B	10.00	10.60
C	1.70 TYP.	
D	5.50	5.90
E	7.30	7.70
F	2.80	3.20
G	3.60	4.00
H	0.30	0.70
I	2.50	2.90
J	17.7	18.7
K	3.00	3.40
L	0.90	1.10