KBJ1001 THRU KBJ1010

Glass Passivated Single Phase Bridge Rectifiers

Features

* Plastic package has underwriters laboratory flammability classification 94V-0
* Ideal for printed circuit boards
* Glass passivated chip junction
* High Surge Current Capability
* High temperature soldering guaranteed 270℃/10 seconds, 0.375(9.5mm) lead length

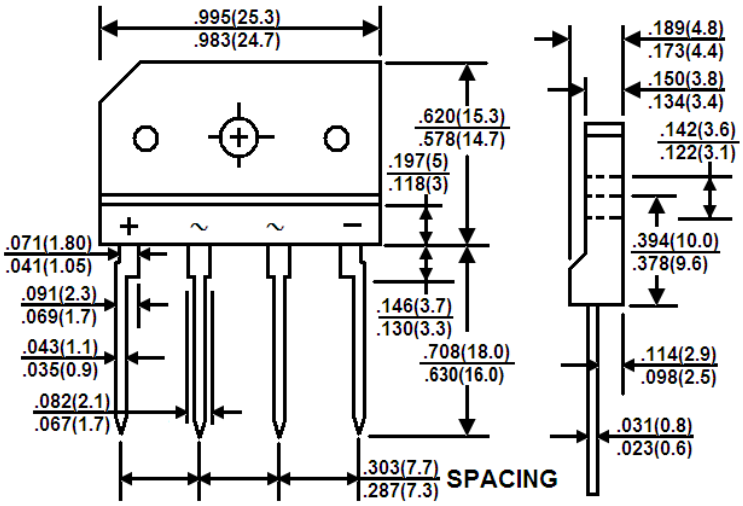
RoHS COMPLIANT

Mechanical Data

* Case: Molded plastic body over passivated junctions

Package Outline Dimensions in inches (millimeters)

KBJ：



Maximum Ratings and Electrical Characteristics

Rating at 25 ℃ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbols	KBJ 1001	KBJ 1002	KBJ 1004	KBJ 1006	KBJ 1008	KBJ 1010	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum Average Forward @ T_C=100℃(Note1) Rectified output Current @ T_A=25℃ (Note2)	$I_{F(AV)}$	10 2.9						A
Peak Forward Surge Current single half sine-wave superimposed on rated load	I_{FSM}	170						A
Maximum instantaneous forward voltage drop per leg at 5.0A	V_F	1.0						V
Maximum Reverse Current @ T_A=25℃ at Rated D.C Blocking Voltage @T_A=100℃	I_R	5.0 500						μA
Typical thermal resistance per leg (Note1)	$R_{\theta JC}$	1.9						℃/W
Operating and Storage Temperature Range	T_J/ T_{STG}	-55 to +150						℃

Note: 1、Unit mounted on 2.95×2.95×0.06" thick (75×75×1.6mm) Cu plate heat sink.

2、Unit mounted on P.C.B. with 0.5×0.5" (12×12mm) copper pads and 0.375" (9.5mm) lead length.

Ratings and Characteristic Curves

FIG.1 – FORWARD OUTPUT CURRENT DERATING CURVE

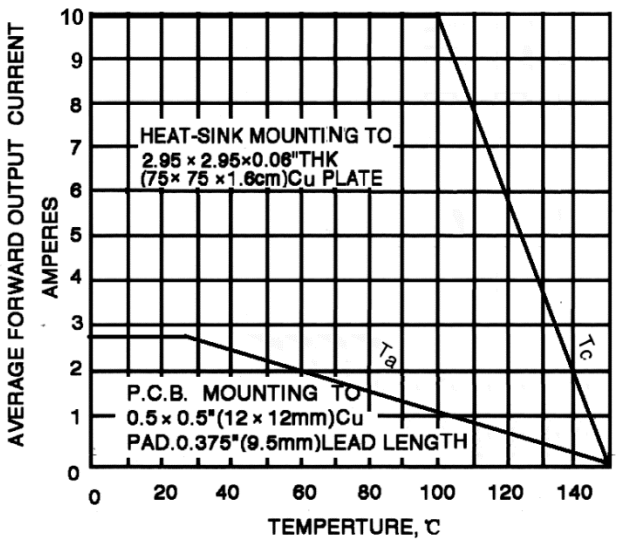


FIG.2 – MAXIMUM NON – REPETITIVE FORWARD SURGE CURRENT – PER ELEMENT

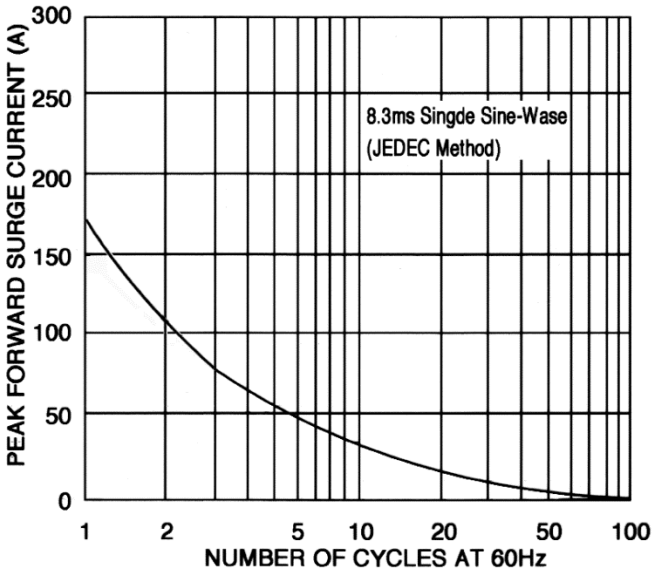


FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS – PER ELEMENT

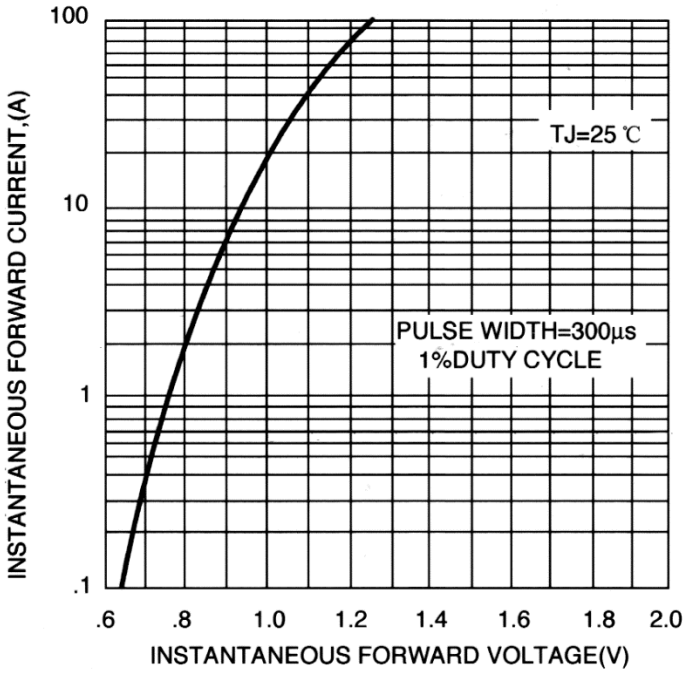
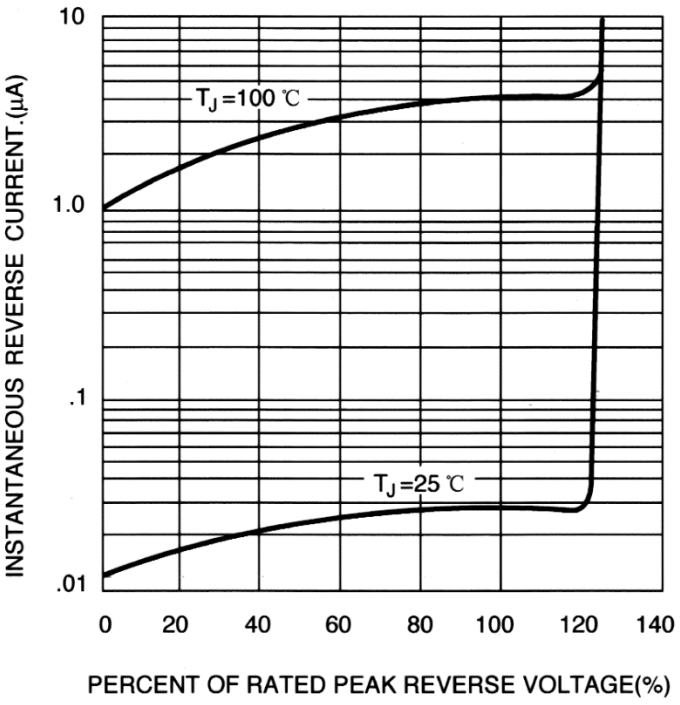


FIG.4 – TYPICAL REVERSE CHARACTERISTICS – PER ELEMENT



Ordering Information

Part No.	Package	Packing
KBJ1001~KBJ1010	KBJ	20pcs/Tube