



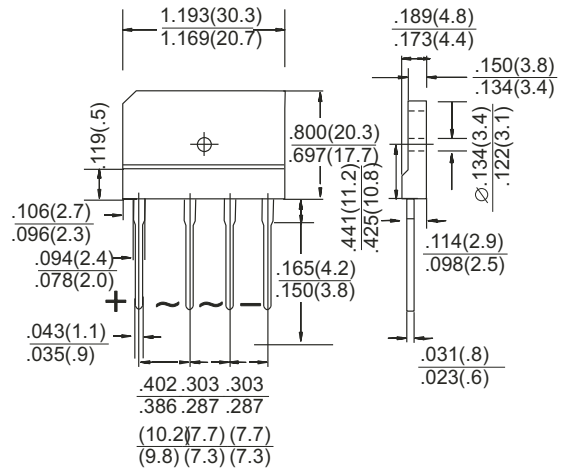
KBJ(10.15.25)005 THRU KBJ(10.15.25)10

SILICON BRIDGE RECTIFIERS
GLASS PASSIVATED
BRIDGE RECTIFIERS

Voltage Range
-50 to 1000 Volts
Current
-10/-15/-25 Ampere

Features

Rating to 1000V PRV
Ideal for printed circuit board
Low forward voltage drop, high current capability
Reliable low cost construction utilizing
molded plastic technique results in inexpensive
product
The plastic material has UL flammability
classification 94V-0



Dimensions in inches and(millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	KBJ	KBJ	KBJ	KBJ	KBJ	KBJ	KBJ	Units
	10005	1001	1002	1004	1006	1008	1010	
	KBJ	KBJ	KBJV	KBJ	KBJ	KBJV	KBJ	
	1505	1501	1502	1504	1506	1508	1510	
	2505	2501	2502	2504	2506	2508	2510	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward (With heatsink Note 2) Rectified Current @T _c = 100 °C (Without heatsink)	10/15/25 3.0/3.2/4.2							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Super imposed on Rated Load(JEDEC Method)	10A 15A 25A	170 240350						A
Maximum Instantaneous Forward Voltage @5.0A Peak Maximum DC Reverse Current @T =25 °C at Rated DC Blocking Voltage @T =125 °C	1.05 5.0/10/10 500							V uA
I ² t Rating for fusing(t<8.3ms)	—							A'S
Typical Junction Capacitance per element(Note 1)	55/60/85							-
Typical Thermal Resistance(Note 2)	1.4/0.8/0.6							°C/W
Operating Temperature Range T _J	-55 to +150							°C
Storage Temperature Range T _{STG}	-55 to +150							°C

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC

2. Device mounted on 150mmX150mmX1.6mm Cu Plate Heatsink

RATINGS AND CHARACTERISTIC CURVES (KBJ(10.15.25)005 THRU KBJ(10.15.25)10)

FIG.1-FORWARD CURRENT DERATING CURVE

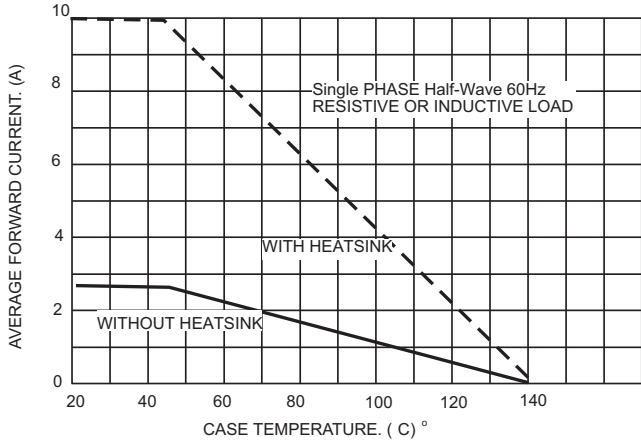


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

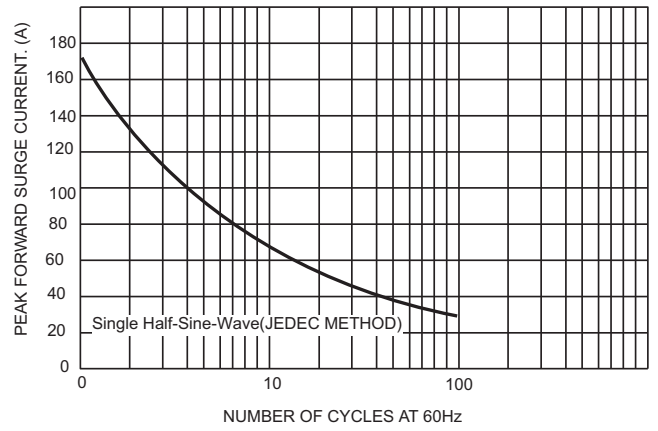


FIG.3- TYPICAL JUNCTION CAPACITANCE

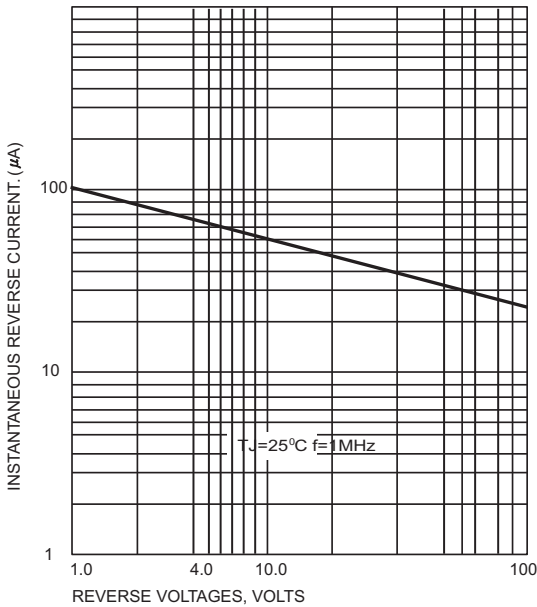


FIG.4-TYPICAL FORWARD CHARACTERISTICS

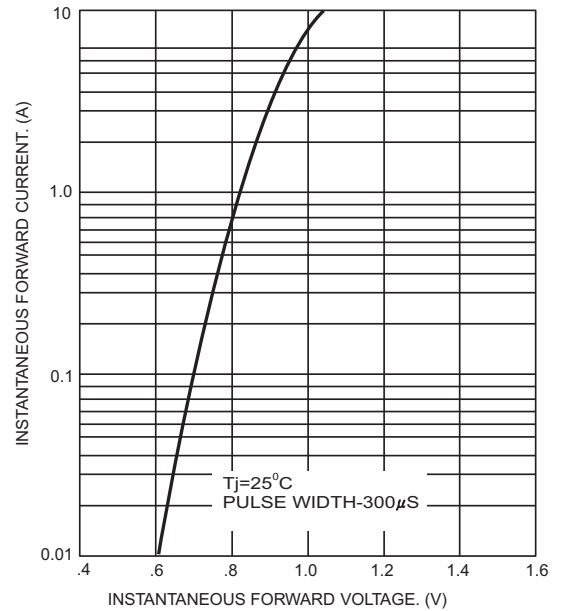


FIG.5- TYPICAL REVERSE CHARACTERISTICS

