



KBJ601 THRU KBJ610

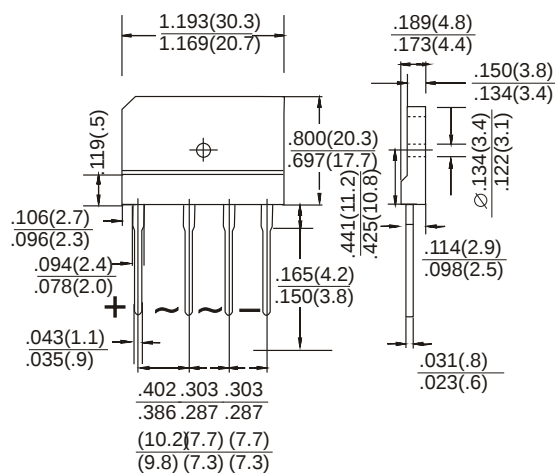
High Efficient Rectifiers

SILICON BRIDGE RECTIFIERS
GLASS PASSIVATED
BRIDGE RECTIFIERS

Voltage Range
-50 to 1000 Volts
Current
-6.0 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 601	KBJ 602	KBJV 604	KBJ 606	KBJ 608	KBJ 610	Units
Maximum Recurrent Peak Reverse Voltage	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	100	200	400	600	800	1000	V
Maximum Average Forward (With heatsink Note 2) Rectified Current @T _c = 100°C (Without heatsink)	6.0 2.8						A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Super imposed on Rated Load(JEDEC Method)	170						A
Maximum Instantaneous Forward Voltage @5.0A Peak	1.0						V
Maximum DC Reverse Current @T _j =25°C at Rated DC Blocking Voltage @T _j =125°C	5.0 500						uA
I _{2 t} Rating for fusing(t<8.3ms)	120						A'S
Typical Junction Capacitance per element(Note 1)	55						pF
Typical Thermal Resistance(Note 2)	1.8						°C/W
Operating Temperature Range T _J	-55 to +150						°C
Storage Temperature Range TSTG	-55 to +150						°C

Notes: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC
2. Device mounted on 75mmX75mmX1.6mm Cu Plate Heatsink

RATINGS AND CHARACTERISTIC CURVES (KBJ601 THRU KBJ610)

FIG.1-FORWARD CURRENT DERATING CURVE

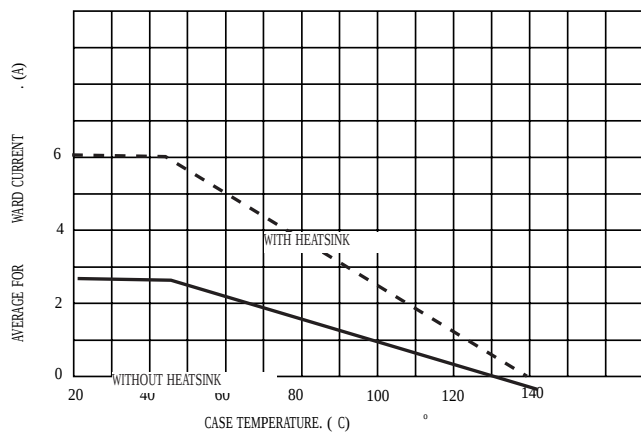


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

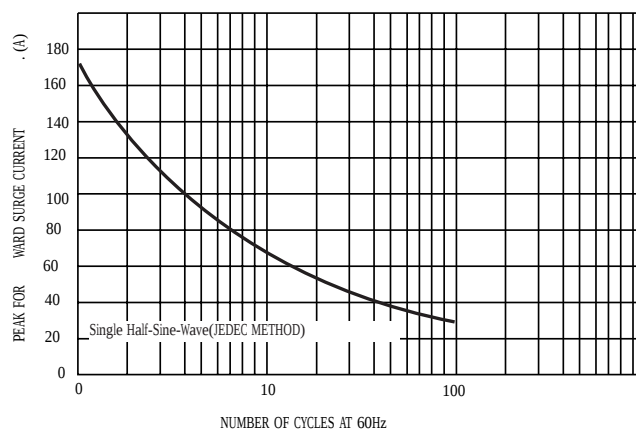


FIG.3- TYPICAL JUNCTION CAPACITANCE

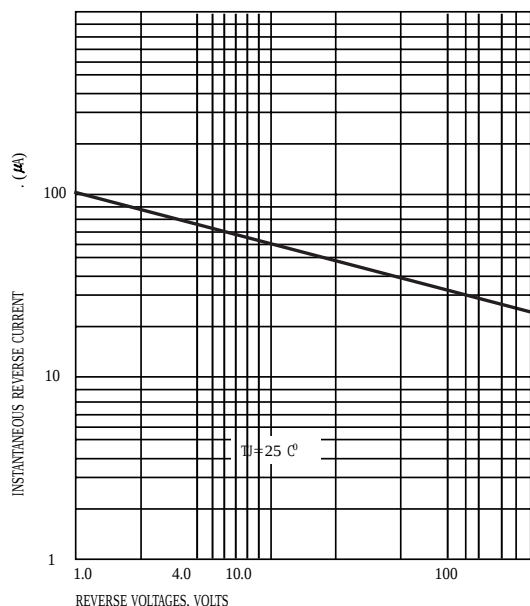


FIG.4-TYPICAL FORWARD CHARACTERISTICS

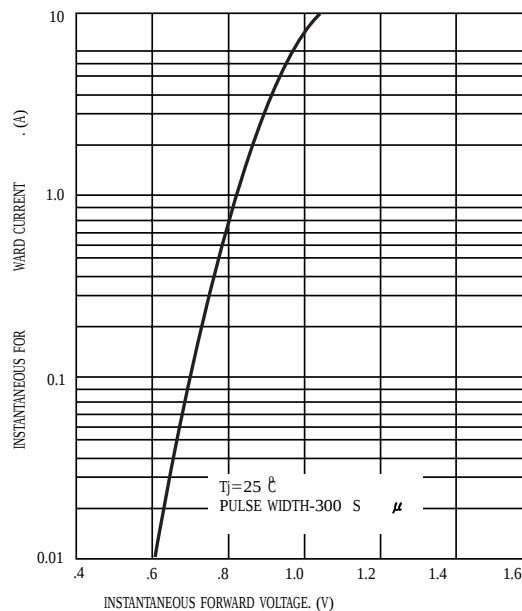


FIG.5- TYPICAL REVERSE CHARACTERISTICS

