

SILICON BRIDGE RECTIFIER

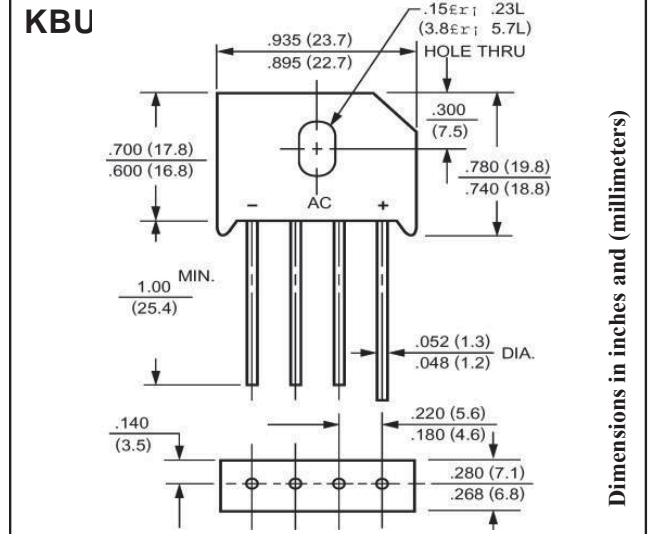
REVERSE VOLTAGE - 50 to 1000V
FORWARD CURRENT - 15 A

FEATURES

- Reliable low cost construction utilizing molded plastic technique
- Ideal for printed circuit board
- Low forward voltage drop
- High surge current capability
- Low reverse leakage current

MECHANICAL DATA

- Case: Molded plastic, KBU
- Epoxy: UL 94V-O rate flame retardant
- Mounting position: As Marking



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted) Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

	Symbols	KBU15005	KBU1501	KBU1502	KBU1504	KBU1506	KBU1508	KBU1510	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _A =65°C	I_(AV)	15.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	300							Amp
Maximum Instantaneous Forward Voltage @ 7.5A	V_F	1.1							Volts
Maximum Reverse Current at @T _A =25°C	I_R	10.0							uAmp
Rated DC Blocking Voltage @T _A =125°C		500							
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{stg}	-55 to +150							°C



RATINGS AND CHARACTERISTIC CURVES

FIG 1 Maximum Derating Curve for Output Current

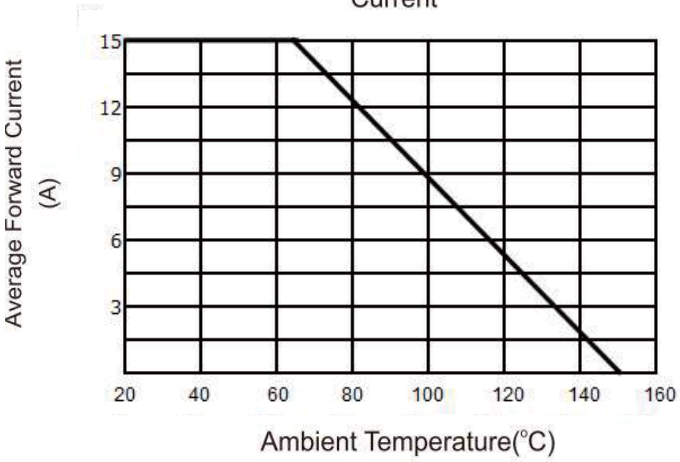


FIG 2 Maximum Forward Surge Current per Leg

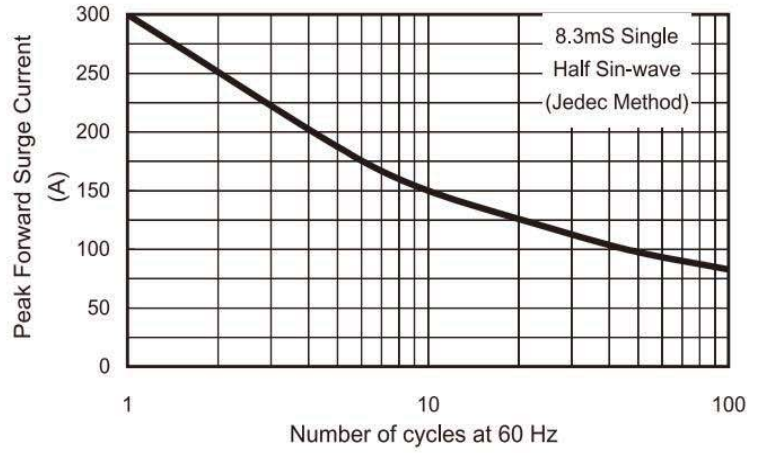


FIG 3 Typical Reverse Leakage Characteristics per Leg

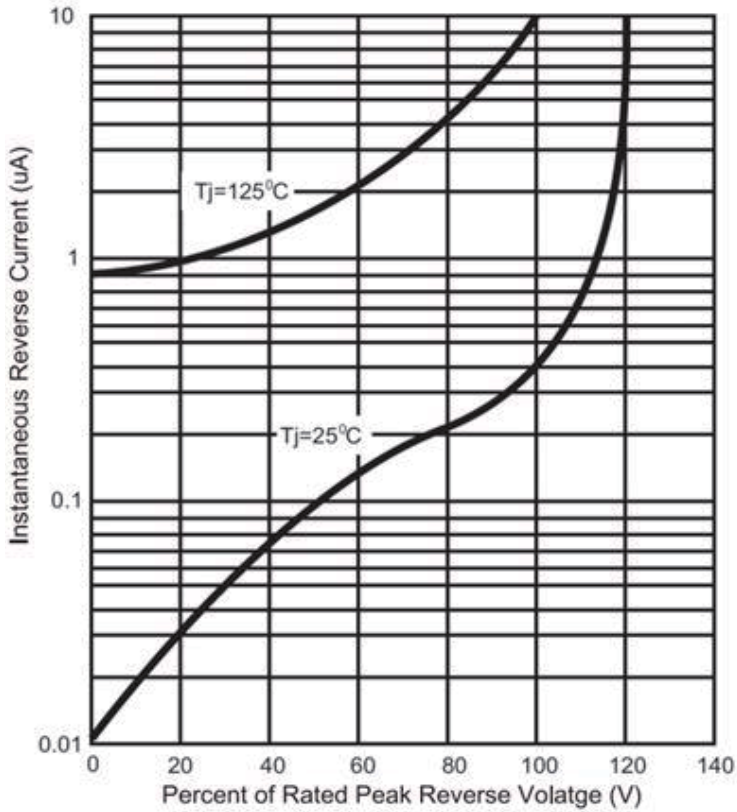


FIG 4 Typical Forward Characteristics per Leg.

