

SILICON BRIDGE RECTIFIER

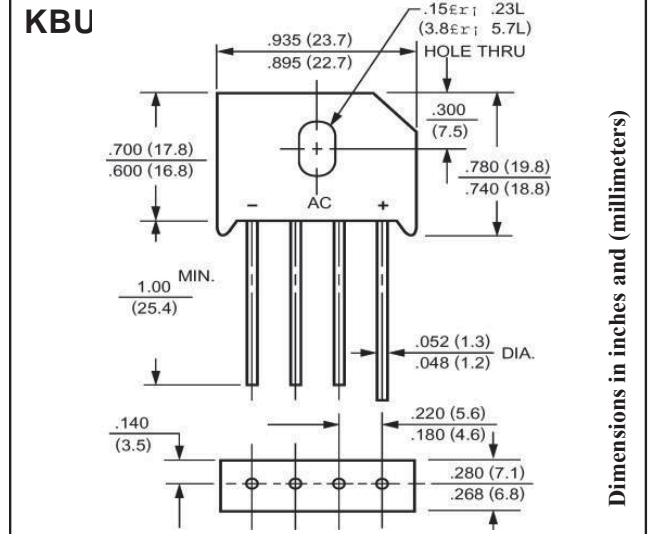
REVERSE VOLTAGE - 50 to 1000V
FORWARD CURRENT - 15 A

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	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	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	VF	1.1							Volts
Maximum Reverse Current at @T _A =25°C	IR	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

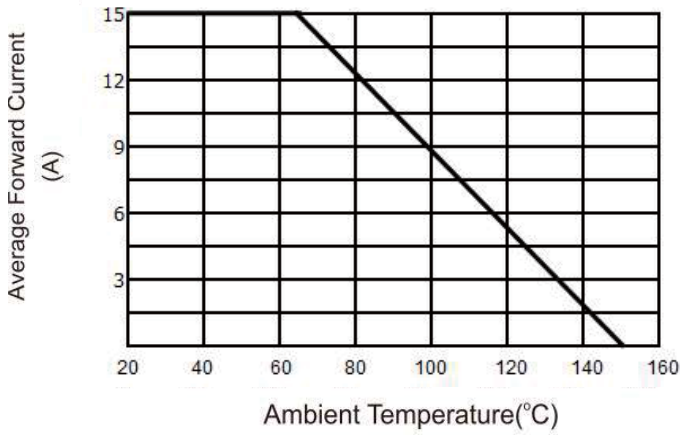


FIG 2 Maximum Forward Surge Current per Leg

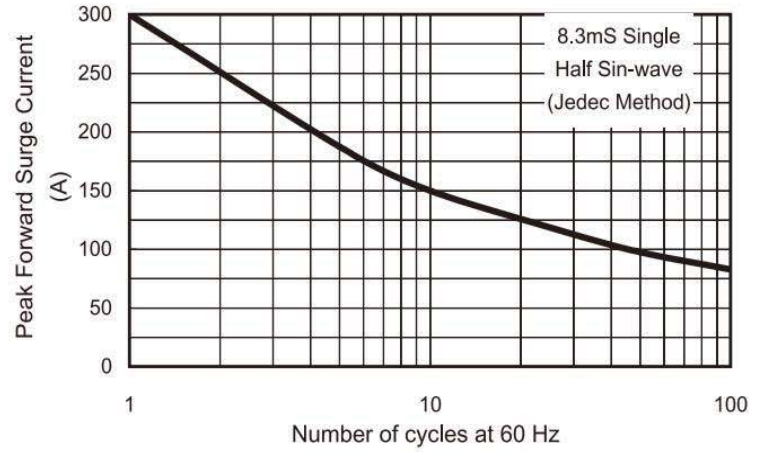


FIG 3 Typical Reverse Leakage Characteristics per Leg

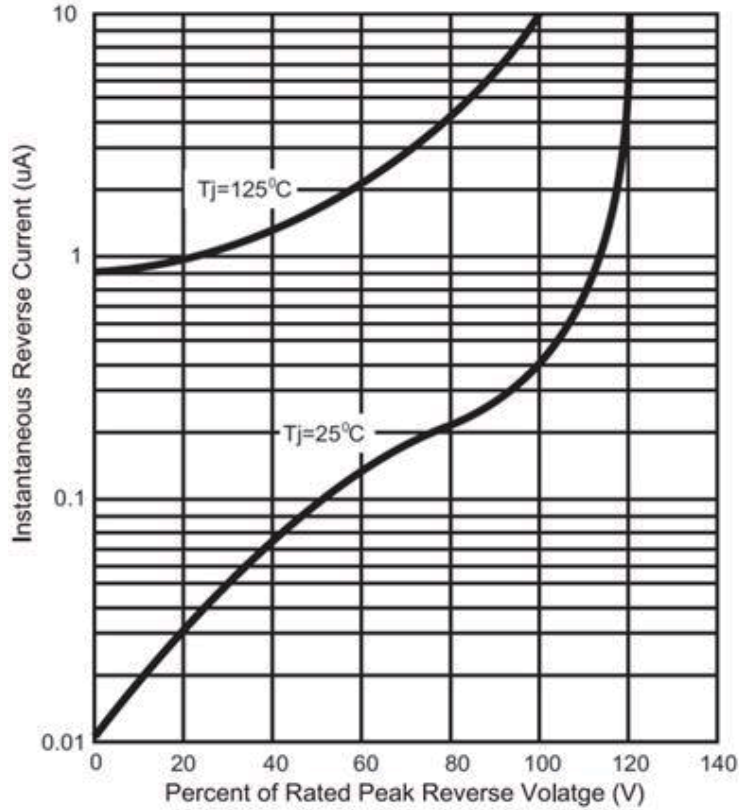


FIG 4 Typical Forward Characteristics per Leg.

