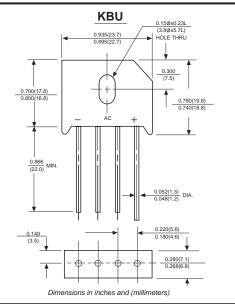


KBU8005 THRU KBU810

SILICON BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current -8.0 Amperes



FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Ideal for printed circuit boards
- Low reverse leakage
- High forward surge current capability
- → High temperature soldering guaranteed: 260°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750,

Method 2026

Polarity: Polarity symbols marked on case

Mounting: Thru hole for #6 serew, 5 in.-lbs. torque max.

Weight: 0.27 ounce, 7.59 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

MDD Catalog Number	SYMBOLS	KBU 8005	KBU 801	KBU 802	KBU 804	KBU 806	KBU 808	KBU 810	UNITS
Maximum repetitive 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 Auerage Forward(with heatsink Note 1) Rectified Current @Tc=100°C(without heatsink)	l(AV)	8.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	200.0							Amps
Maximum instantaneous forward voltage drop per birdge element at 4.0A	VF	1.0							Volts
Maximum DC reverse current Ta=25°C	IR 10								μΑ
at rated DC blocking voltage Ta=125°C	IR IR	0.5							mA
Typical Junction Capacitance (Note 1)	C1	200							pF
Typical Thermal Resistance (Note 2)	Reja	5.0							°C/W
Operating junction temperature range	TJ	-55 to +150							°C
storage temperature range	Тѕтс	-55 to +150							°C

NOTES:

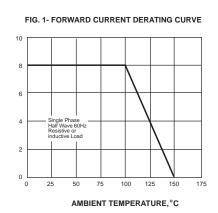
1.Device mounted on 100mm*100mm*1.6mm Cu plate heatsink



RATINGS AND CHARACTERISTIC CURVES KBU8005 THRU KBU810



0.01 0.6





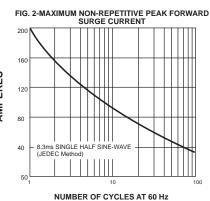
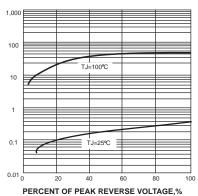


FIG. 3-TYPICAL INSTANTANEOUS FORWARD INSTANTANEOUS FORWARD CURRENT, AMPERES CHARACTERISTICS 20 10 TJ=25℃ PULSE WIDTH=300 μs 1%DUTY CYCLE

INSTANTANEOUS REVERSE CURRENT, MICROAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

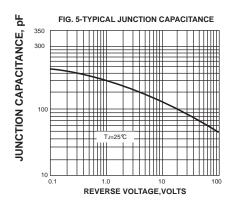


INSTANTANEOUS FORWARD VOLTAGE, VOLTS

1.2

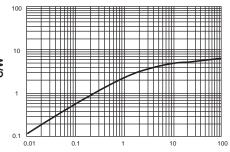
1.4

1.0



TRANSIENT THERMAL IMPEDANCE, "C/W"

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



t,PULSE DURATION,sec.

The cruve graph is for reference only, can't be the basis for judgment(



