



SILICON BRIDGE RECTIFIERS

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

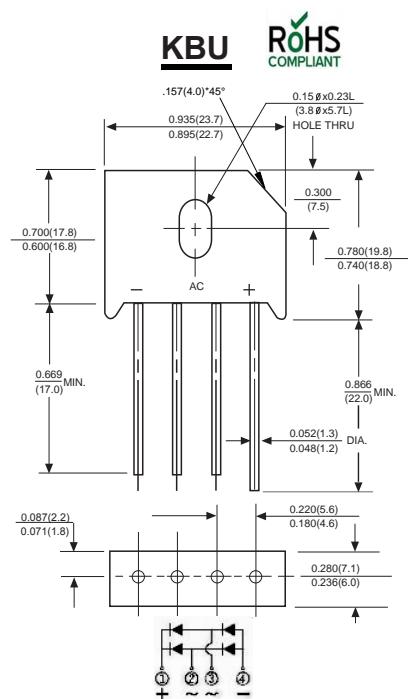
Case : JEDEC KBU Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.27ounce, 7.59grams



Dimensions in inches and (millimeters)

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%.

Parameter	SYMBOLS	MDD KBU6005	MDD KBU601	MDD KBU602	MDD KBU604	MDD KBU606	MDD KBU608	MDD KBU610	UNITS
Marking Code									
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward output rectified current at TA=100 °C	I _(AV)					6.0			A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}					250			A
Maximum instantaneous forward voltage drop per bridge element at 6.0A	V _F				1.1				V
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=125°C	I _R				10				µA
					1.0				mA
Typical Junction Capacitance	C _J				200				pF
Typical Thermal Resistance (Note 1)	R _{θJA}				2.7				°C/W
Operating junction temperature range	T _J				-55 to +150				°C
storage temperature range	T _{STG}				-55 to +150				°C

NOTES:

1.Thermal resistance from Junction to Ambient on P.C.board mounting.



Ratings And Characteristic Curves

Fig. 1 Derating Curve for Output Rectified Current

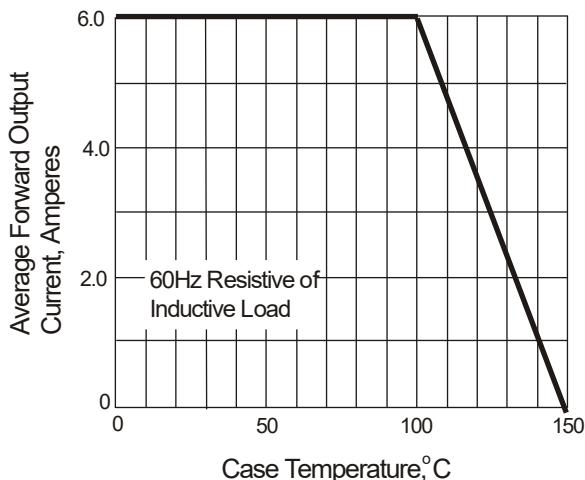


Fig. 3 Typical Instantaneous Forward Characteristics

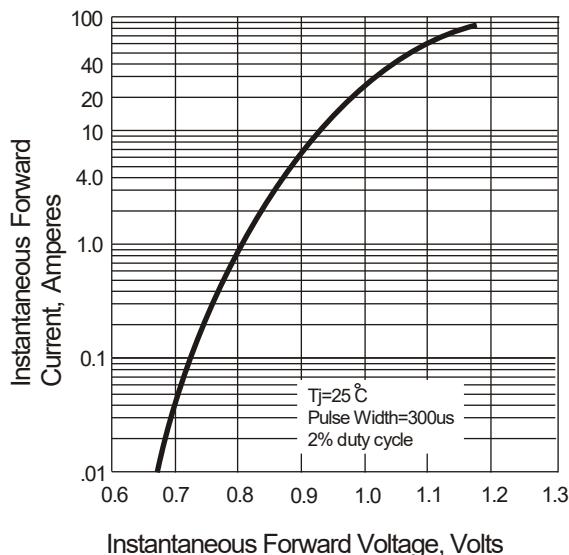


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

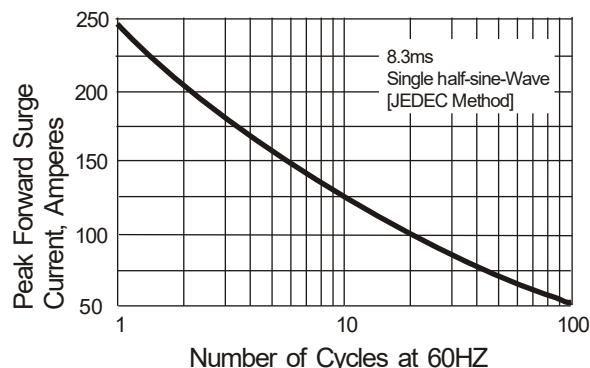


Fig. 4 Typical Reverse Characteristics

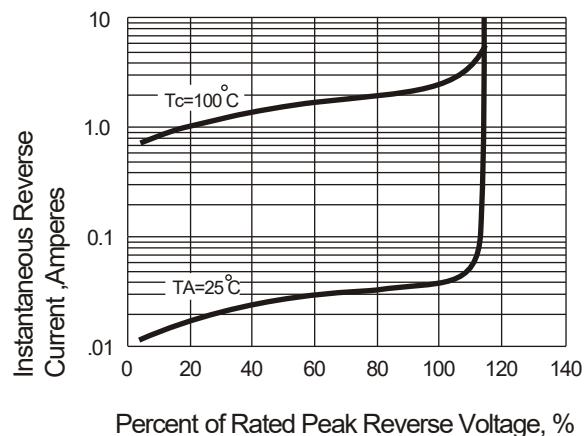
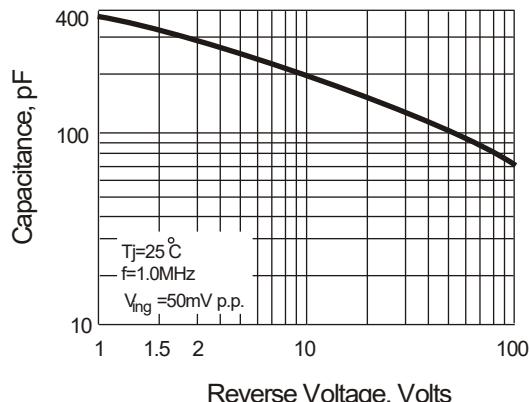


Fig. 5 Typical Junction Capacitance



The curve above is for reference only.