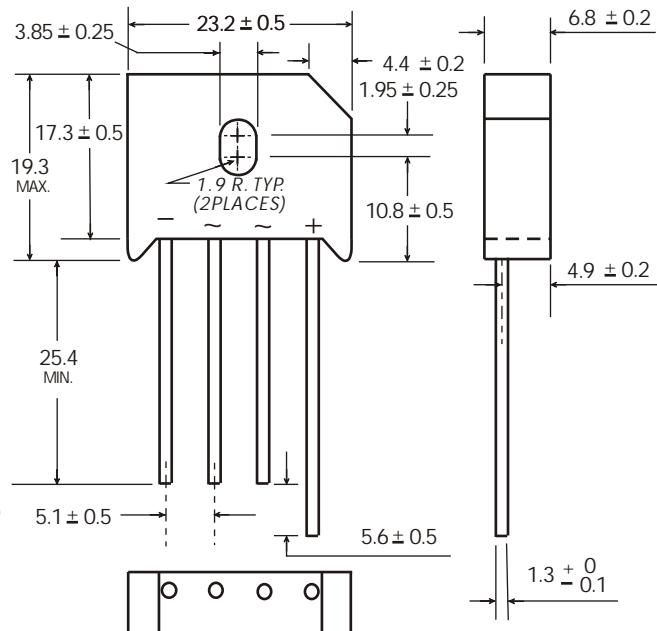


6.0 A Single-Phase Silicon Bridge Rectifier
Rectifier Reverse Voltage 50 to 1000V



Dimensions in millimeters(1mm = 0.0394")

Mechanical Data

- Ideal for P.C. Board mounting
- High surge current capability
- This series is UL listed under the Recognized Component Index, file number E142814
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- High temperature soldering guaranteed 265°C /10 seconds at 5 lbs (2.3kg) tension

Case: Molded plastic body
Terminals: Plated leads solderable per MIL-STD-202,
Method 208
Polarity: Polarity symbols molded on body
Mounting Position:: Any
Mounting Torque: 5 in-lbs max.
Weight: 0.3 ounce, 8.0 grams (approx)

Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.
For Capacitive load derate current by 20%.

Parameter	Symbol	KBU6A	KBU6B	KBU6D	KBU6G	KBU6J	KBU6K	KBU6M	unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at $T_c=100^\circ\text{C}$	IF(AV)				6.0				A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM				250				A
Rating for fusing ($t<8.3\text{ms}$)	$I^2 t$				300				$\text{A}^2 \text{ sec}$
Typical thermal resistance per element (1)	ReJA				2.7				$^\circ\text{C} / \text{W}$
Operating junction and storage temperature range	TJ, TSTG				-55 to + 150				$^\circ\text{C}$

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.
For Capacitive load derate by 20 %.

Parameter	Symbol	KBU6A	KBU6B	KBU6D	KBU6G	KBU6J	KBU6K	KBU6M	Unit
Maximum instantaneous forward voltage drop per leg at 6.0A	VF				1.1				V
Maximum DC reverse current at rated TA = 25°C DC blocking voltage per element TA = 125°C	IR				10 500				μA

Notes: (1)Thermal resistance from Junction to Ambemton P.C.board mounting.

Rating and Characteristic Curves ($T_A = 25^\circ\text{C}$ Unless otherwise noted)
KBU6A thru KBU6M

Fig. 1 Derating Curve for Output Rectified Current

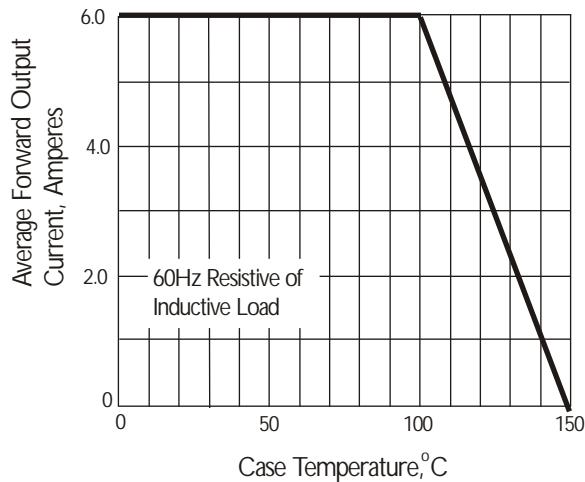


Fig. 3 Typical Instantaneous Forward Characteristics

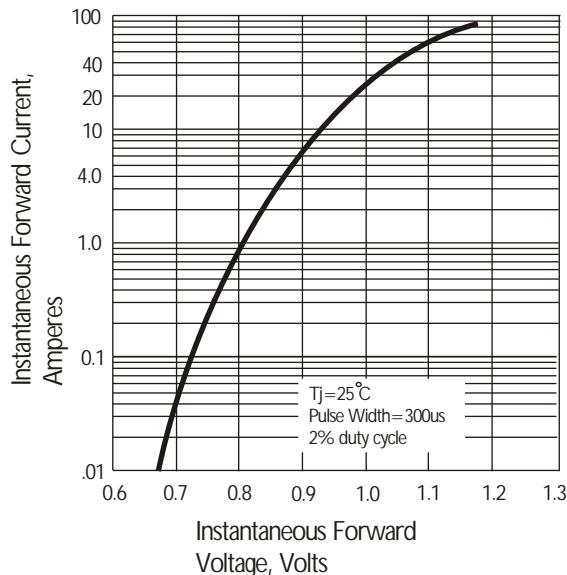


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

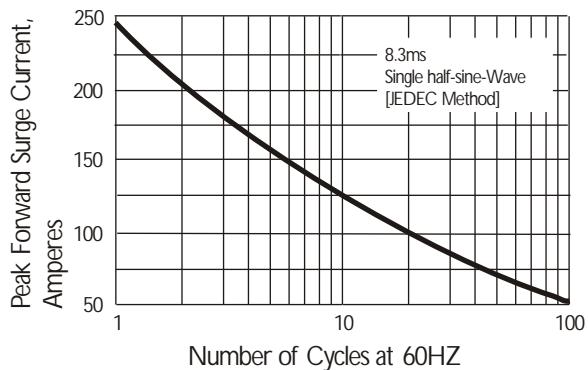


Fig. 4 Typical Reverse Characteristics

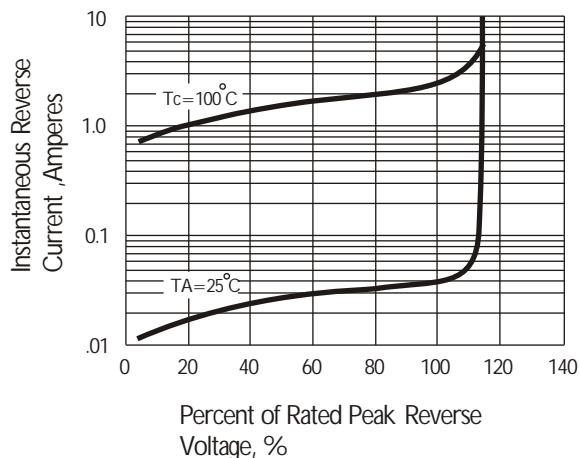


Fig. 5 Typical Junction Capacitance

