

SINGLE-PHASE SILICON BRIDGE RECTIFIER

REVERSE VOLTAGE: 50 to 1000 V FORWARD CURRENT: 6 A

Features

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

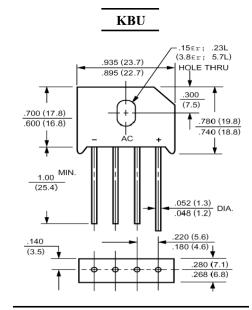
Mechanical Data

· Case: Molded plastic, KBU

• **Epoxy**: UL 94V-0 rate flame retardant • **Terminals**: leads solderable per

MIL-STD-202, Method 208 guaranteed

• Mounting Position: Any



Dimensions in inches and (millimeters)

Absolute Maximum Ratings and Characteristics

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

Parameter	Symbols	KBU6A	KBU6B	KBU6D	KBU6G	KBU6J	KBU6K	KBU6M	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current 0.375"(9.5mm) Lead Length at T_a = 65 $^{\circ}$ C	I _{F(AV)}	6							Α
Peak Forward Surge Current 8.3 ms Single Half-sine -wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	200							Α
Maximum Forward Voltage at 6 A	V_{F}	1					٧		
$ \begin{array}{ccc} \text{Maximum Reverse Current} & & \text{T_a = 25 °C$} \\ \text{at Rated DC Blocking Voltage} & & \text{T_a = 100 °C$} \\ \end{array} $	I _R	10 500							μΑ
Typical Thermal Resistance 1)	$R_{\theta JA}$	8.6							°C/W
Typical Thermal Resistance 1)	$R_{\theta JL}$	3.1							°C/W
Operating and Storage Temperature Range	T_j , T_{stg}	- 55 to + 125							°С

¹⁾ Thermal resistance from junction to ambient with units in free air, mounted on P.C.B with 0.5 X 0.5" (12X 12 mm) copper pads, 0.375"(9.5mm) Lead Length.



