KBU6A THRU KBU6M

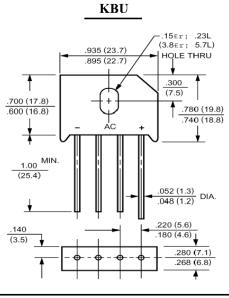
SINGLE-PHASE SILICON BRIDGE RECTIFIER REVERSE VOLTAGE: 50 to 1000 V FORWARD CURRENT: 6 A

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)

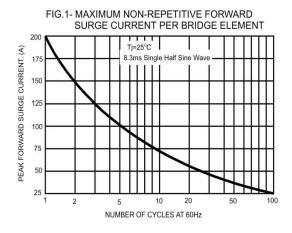
Absolute Maximum Ratings and Characteristics

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	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 Rectified Current 0.375"(9.5mm) Lead Length at $T_a = 65 \ ^{\circ}C$	$I_{F(AV)}$	6							А
Peak Forward Surge Current 8.3 ms Single Half-sine -wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	200							A
Maximum Forward Voltage at 6 A	V _F	1							V
Maximum Reverse Current $T_a = 25 \ ^{\circ}C$ at Rated DC Blocking Voltage $T_a = 100 \ ^{\circ}C$	I _R	10 500							μA
Typical Thermal Resistance 1)	$R_{\theta JA}$	8.6							°C/W
Typical Thermal Resistance 1)	$R_{ ext{ heta}JL}$	3.1							°C/W
Operating and Storage Temperature Range	T _j ,T _{stg}	- 55 to + 125							°C

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





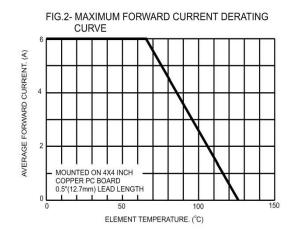
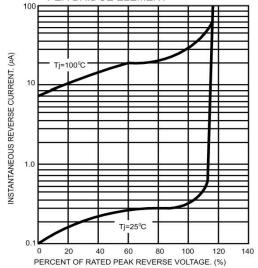


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



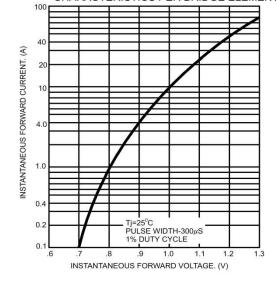


FIG.3- TYPICAL INSTANTANEOUS FORWARD

CHARACTERISTICS PER BRIDGE ELEMENT

