

KBU601 - KBU607

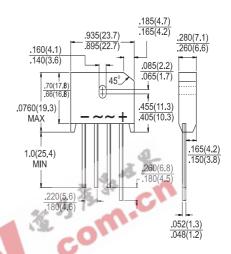


Single Phase 6.0 AMPS. Silicon Bridge Rectifiers **KBU**



Features

- ♦ UL Recognized File # E-96005
- High surge current capability
- ♦ Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed: 260 °C / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension
- ♦ Weight: 8 grams



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating 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%

Type Number	Symbol	KBU 601	KBU 602	KBU 603	KBU 604	KBU 605	KBU 606	KBU 607	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 @T _A = 65°C	I _(AV)	6.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200							Α
Maximum Instantaneous Forward Voltage @ 3.0A @ 6.0A	V _F	1.0 1.1							V
Maximum DC Reverse Current @ T_A =25°C at Rated DC Blocking Voltage @ T_A =125°C	I _R	10 500							uA uA
Typical Thermal resistance (Note 1) (Note 2)	$R_{ heta JA} \ R_{ heta JL}$	8.6 3.1							°C/W
Operating Temperature Range	TJ	-55 to +125							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

Notes:

- 1. Thermal resistance from Junction to Ambient with units in Free Air, P.C.B. Mounted on 0.5" x 0.5" (12mm x 12mm) Copper Pads, 0.375" (9.5mm) Lead Length.
- 2. Thermal resistance from Junction to Case with units Mounted on 2" x 3.0" x 0.25" Al. Plate



RATINGS AND CHARACTERISTIC CURVES (KBU601 THRU KBU607)

