

Silicon Bridge Rectifiers

KBU6005--KBU610

FEATURES

- UL Recognized File
- High surge current capability
- . Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed:
250 / 10 seconds / 0.375" (9.5mm) lead length at 5lbs.
- Mounting position: Any



Lead-free

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

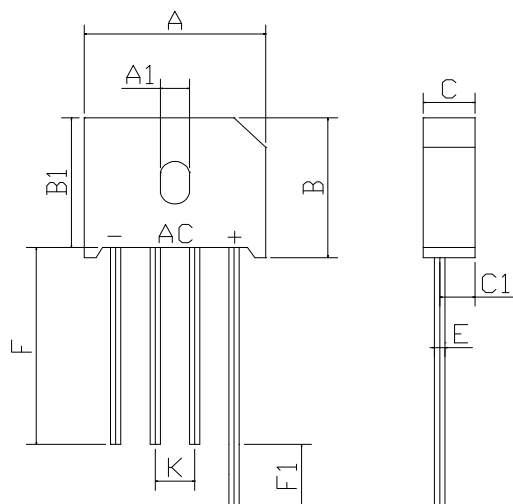
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		KBU 6005	KBU 601	KBU 602	KBU 604	KBU 606	KBU 608	KBU 610	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 Output current @ $T_A=65^{\circ}C$	$I_{F(AV)}$	6.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	250.0							A
Maximum instantaneous forward voltage @3.0A	V_F	1.1							V
Maximum reverse current @ $T_A=25^{\circ}C$ at rated DC blocking voltage @ $T_A=100^{\circ}C$	I_R	10.0 1.0							μA mA
Operating junction temperature range	T_J	- 55 ---- + 125							$^{\circ}C$
Storage temperature range	T_{STG}	- 55 ---- + 150							$^{\circ}C$

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PACKAGE OUTLINE DIMENSIONS



KBU		
Dim	Min	Max
A	22.80	23.20
A1	3.70	4.10
B	18.90	19.30
B1	17.60	18.00
C	6.55	6.85
C1	4.50	4.80
E	Ø1.20	Ø1.40
F	25min	
F1	4min	
K	4.70	5.30
All Dimensions in mm		

PACKAGE INFORMATION

Device	Package	Shipping
KBU6005--KBU610	KBU	400 Units/Box

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FIG.1 – PEAK FORWARD SURGE CURRENT

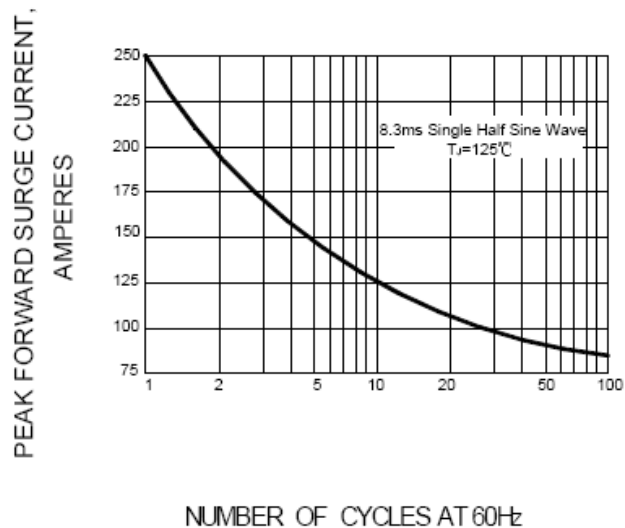


FIG.2 – FORWARD DERATING CURVE

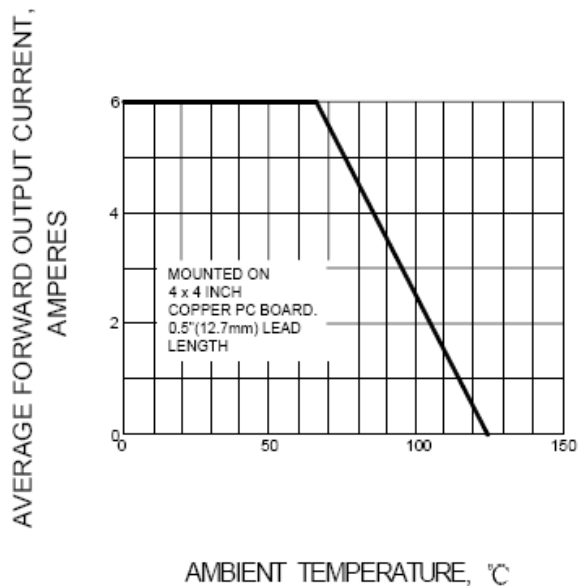


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

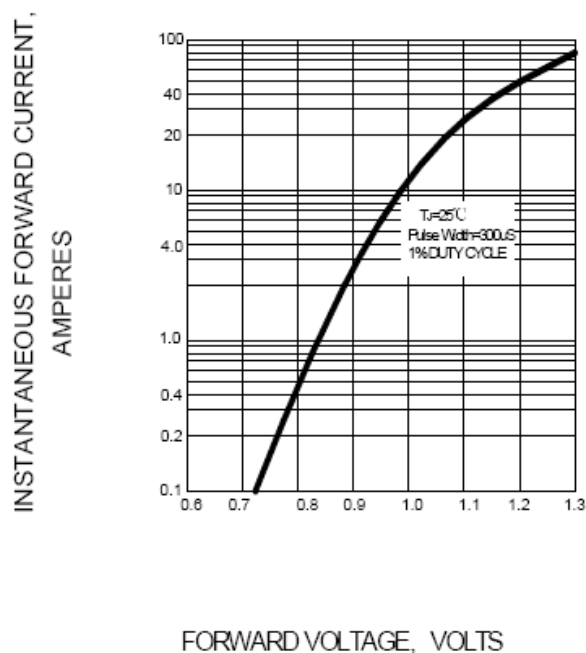


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

