

Silicon Bridge Rectifiers

KBU8005--KBU810

FEATURES

- Rating to 1000V PRV
- Surge overload rating to 300 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 method 208



Lead-free

Maximum Ratings (@T_A = 25°C unless otherwise specified)

Characteristic	Symbol	KBU8005	KBU801	KBU802	KBU804	KBU806	KBU808	KBU810	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 =25°C	I _{F(AV)}	8.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}	300							A

Thermal Characteristics

Characteristic	Symbol	KBU8005	KBU801	KBU802	KBU804	KBU806	KBU808	KBU810	UNITS
Operating junction temperature range	T _J	- 55 ---- + 125							°C
Storage temperature range	T _{STG}	- 55 ---- + 150							°C

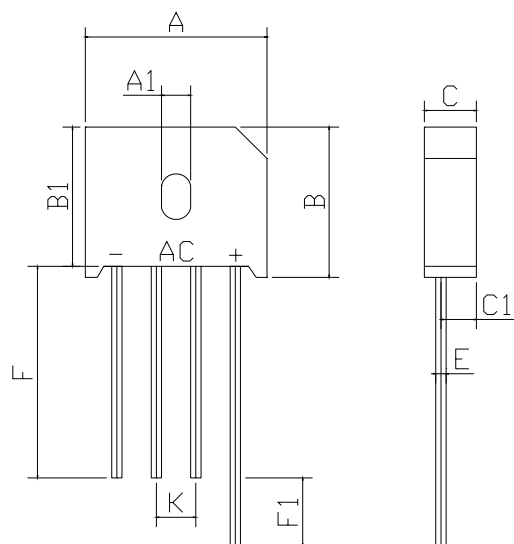
Electrical Characteristics (@T_A = 25°C unless otherwise specified)

Characteristic	Symbol	KBU8005	KBU801	KBU802	KBU804	KBU806	KBU808	KBU810	UNITS
Maximum instantaneous forward voltage @4.0A	V _F	1.1							V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	I _R	10 1.0							μ A m A

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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
KBU8005--KBU810	KBU	400 Units/Box

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FIG.1 – TYPICAL FORWARD CURRENT DERATING CURVE

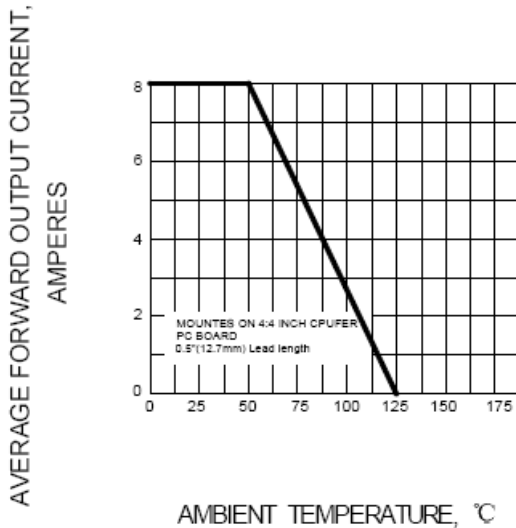


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

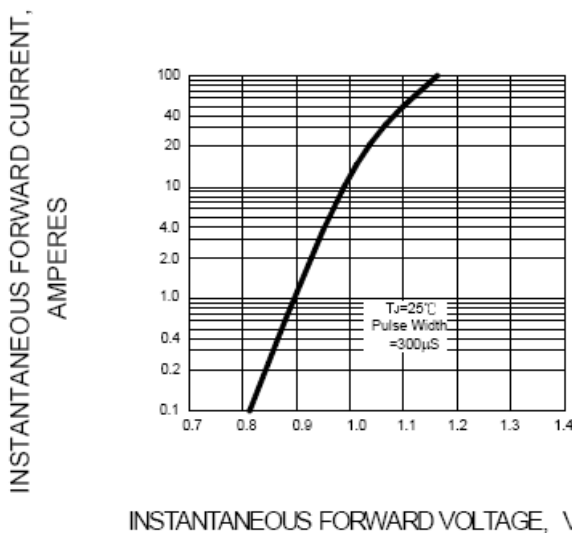


FIG.2 – MAXIMUM FORWARD SURGE CURRENT

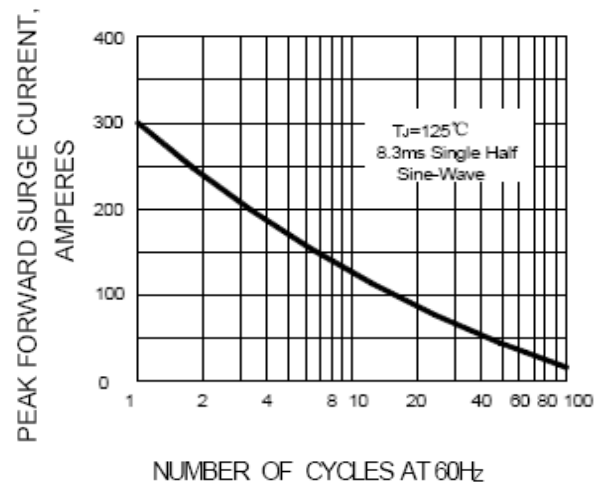


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

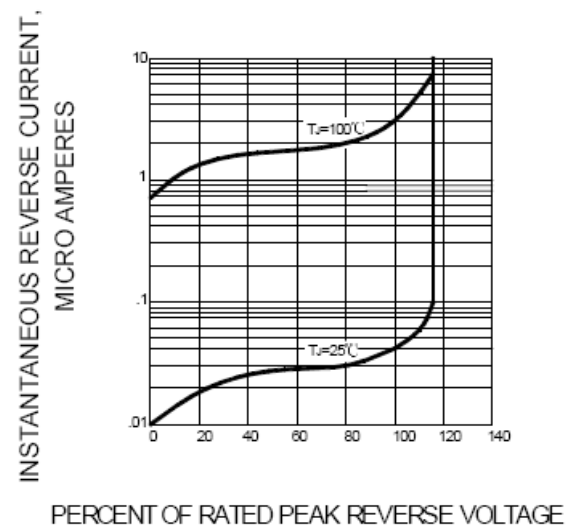


FIG.5 – TYPICAL JUNCTION CAPACITANCE PER ELEMENT

