



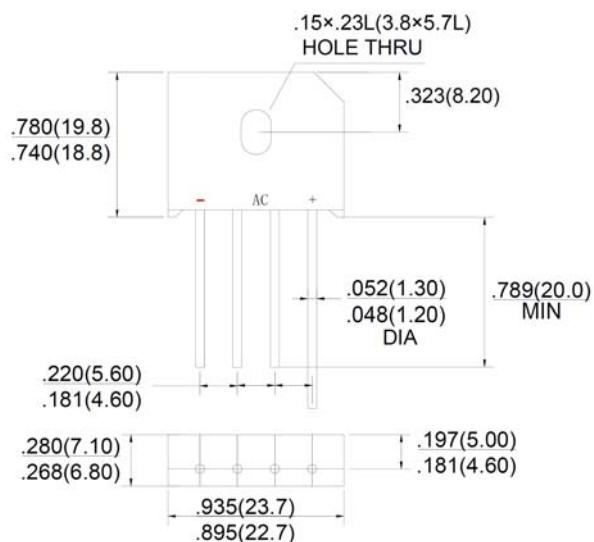
Central Plate
Electronics Co., Ltd.

SINGLE-PHASE SILICON BRIDGE KBU25005 THRU KBU2510 50 to 1000 V 25.0 A

FEATURES

- Low leakage
- Low forward voltage
- Mounting Position: Any
- General purpose 1 phase Bridge rectifier applications

KBU



Maximum Ratings and Electrical Characteristics

Dimensions in inches and (millimeters)

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

MAXIMUM RATINGS (At TA=25°C unless otherwise noted)

RATINGS	Symbol	KBU 25005	KUB 2501	KUB 2502	KUB 2504	KUB 2506	KUB 2508	KUB 2510	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at @ T _C =50°C	I _O				25				Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}				400				Amp
Current Squared Time 1ms≤t≤8.3ms T _j =25°C, Rating of per diode	I ² t			666					A ² S
Maximum Forward Voltage drop per element of 12.5A DC	V _F			1.1					Volts
Maximum DC Reverse Current at rated @ T _A =25°C	I _R			10					μAmp
Operating Temperature Range	T _J			-55 to +150					°C
Storage Temperature Range	T _{STG}			-55 to +150					°C
Thermal Resistance	R _{θJ-C}			1.4 ⁽¹⁾					°C/W

Notes:

(1) Units Mounted on a aluminum plate heat sink.

RATINGS AND CHARACTERISTIC CURVES (KUB2501 thru KBU2507)



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