



YEA SHIN TECHNOLOGY CO., LTD

KBU6A THRU KBU6M

**TECHNICAL SPECIFICATIONS OF SINGLE-PHASE
SILICON BRIDGE RECTIFIER
VOLTAGE RANGE-50 to 1000 Volts CURRENT-6.0 Amperes**

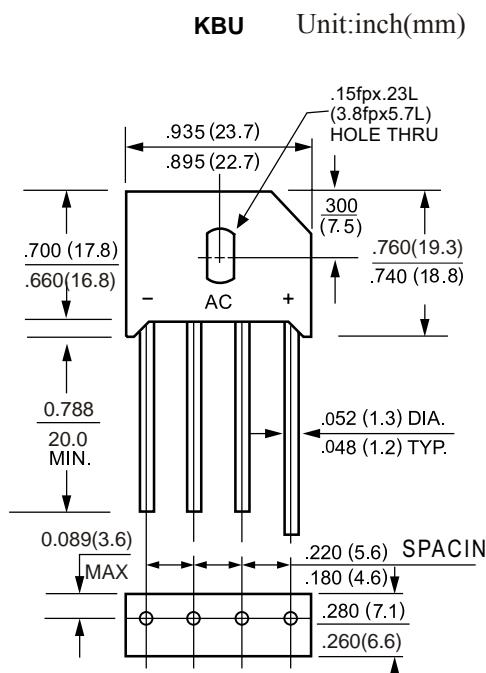


FEATURES

- Low leakage
- Low forward voltage
- Surge overload rating: 250 Amperes peak
- Molded structure
- High temperature soldering : 260°C / 10 seconds at terminals
- Pb free product available : 99% Sn above meet RoHS environment substance directive request

MECHANICAL DATA

- Case:Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: MIL-STD-202E,Method 208 guaranteed
- Polarity: Symbols molded or marked on body
- Mounting position: Any
- Weight: 4.8 grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	KBU6A	KBU6B	KBU6D	KBU6G	KBU6J	KBU6K	KBU6M	UNITS
Maximum Recurrent Peak Reverse Voltage	VRMM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at TC = 50	IO					6.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	IFSM					250			Amps
Maximum Forward Voltage Drop per element at 6.0A DC	VF				1.0				Volts
Maximum DC Reverse Current at @TA = 25	IR				5.0				
Rated DC Blocking Voltage per element @TA = 100					500				µAmp
I²t Rating for Fusing(t<8.3ms)	I ² t				259				A ² Sec
Typical Junction Capacitance(Note1)	CJ				186				pF
Typical Thermal Resistance(Note2)	R JA				10				/W
Operating Temperature Range	TJ ,TSTG				-55 to + 150				

NOTES: 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts

2.Thermal Resistance from Junction to Ambient and from junction to leadmounted on P.C.B with 0.47x3.0x0.47"(12x12mm) copper plate.

DEVICE CHARACTERISTICS

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FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

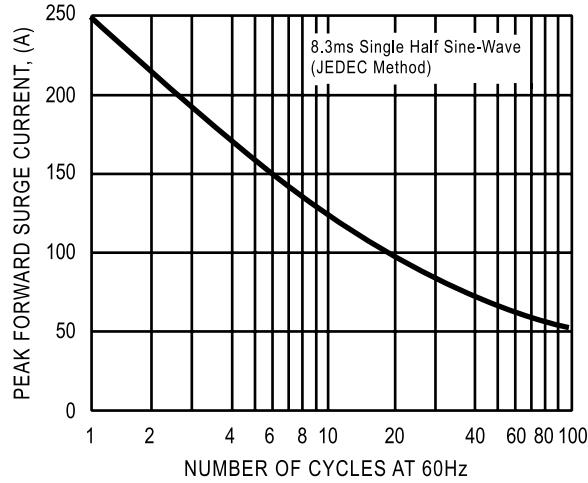


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

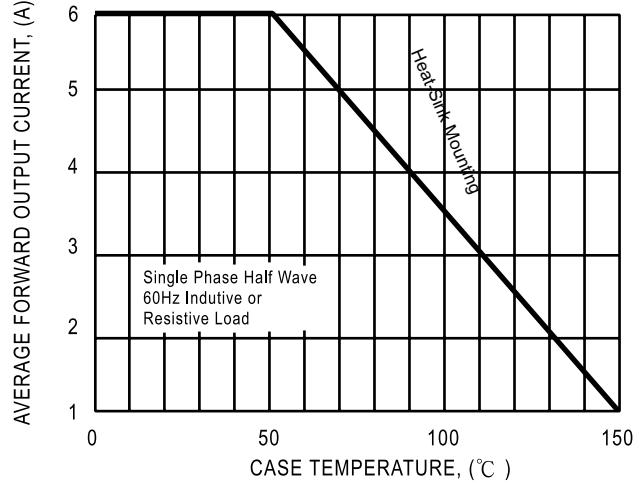


FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

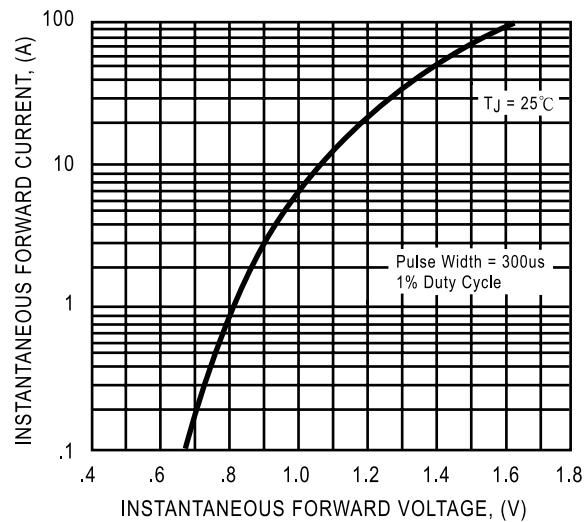


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

