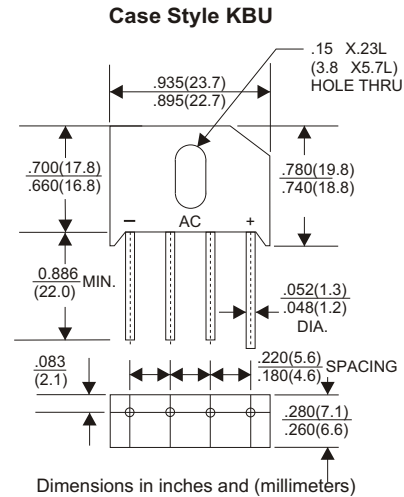


# SINGLE PHASE 8.0 AMP BRIDGE RECTIFIERS

## Features:

- \* Ideal for printed circuit board
- \* Low forward voltage
- \* Low leakage current
- \* Polarity: marked on body
- \* Mounting position: Any
- \* Both normal and Pb free product are available:
- \* Normal:80~95%Sn,5~20%Pb
- \* Pb free:99 Sn above can meet Rohs enviroment substance directive request



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	KBU801	KBU802	KBU803	KBU804	KBU806	KBU808	KBU810	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length At				8.0				A
				6.0				
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)				200				A
Maximum Forward Voltage Drop per Bridge Element at 8.0A D.C.				1.0				V
Maximum DC Reverse Current at Rated DC Blocking Voltage				10				uA
				500				uA
Operating Temperature Range, T <sub>j</sub>				-65	+125			°C
Storage Temperature Range, TSTG				-65	+150			°C

**NOTE:**

- (1) Recommended mounted position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6screw.
- (2) Unites mounted in free air,no heatsink,P.C.B. 0.375"(9.5mm) lead length with0.5\*0.5"(12\*12mm) coper pads
- (3) Unites mounted on a 3.0\*3.0\*0.11"(7.5\*7.5\*0.3cm)AL.plate heatsink

RATING AND CHARACTERISTIC CURVES (KBU801 THRU KBU810)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

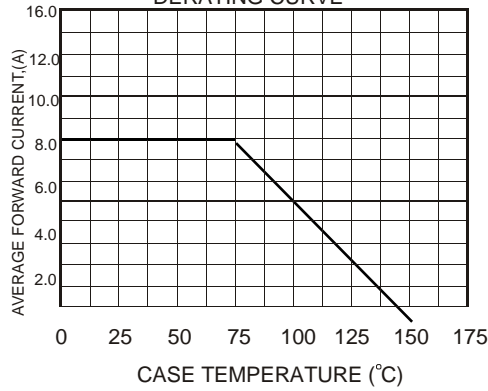


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

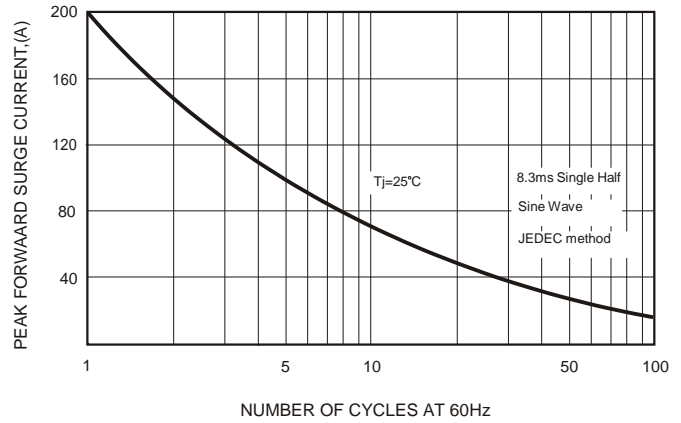


FIG.3-TYPICAL FORWARD CHARACTERISTICS

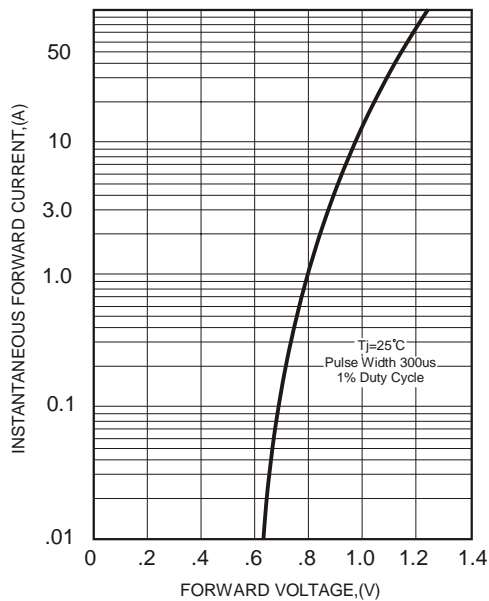


FIG.4-TYPICAL REVERSE CHARACTERISTICS

