

**GLASS PASSIVATED
BRIDGE RECTIFIERS**

REVERSE VOLTAGE - **50 to 1000**Volts
FORWARD CURRENT - **15.0**Amperes

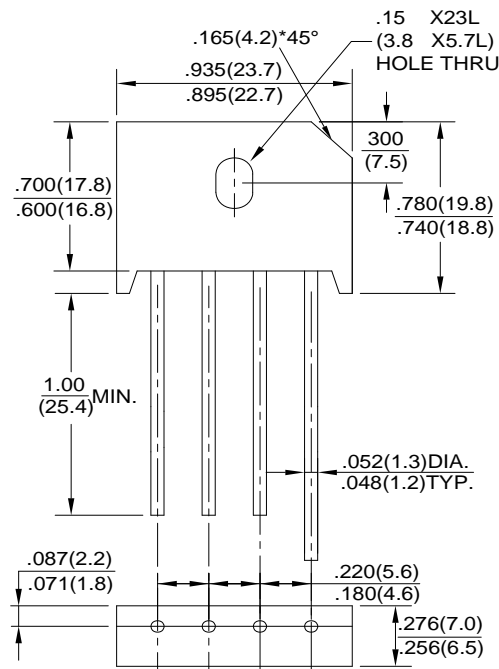
Features

- Surge overload rating -300 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L flammability classification 94V-0
- Mounting position: Any

Typical Applications

General purpose use in AC/DC bridge full wave rectification for switching power supply, home appliances and white-goods applications specially for telecom power supply, high efficiency desktop PC and server SMPS.

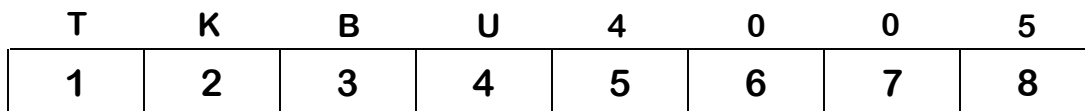
Dimensions In Inches and (millimeters)



Dimensions in inches and (millimeters)

KBU

Part Number Code



Product Type	
TSK	TKBU series

I _o (A)	
6	6A
8	8A
25	25A

Peak Repetitive Reverse Voltage (V)	
005	50V
06	600V
10	1000V

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	TKBU 15005	TKBU 1501	TKBU 1502	TKBU 1504	TKBU 1506	TKBU 1508	TKBU 1510	UNIT
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 Rectified Current @ T _c =100°C (with heatsink Note 1) @ T _c =100°C (without heatsink)	I _(AV)	15.0 3.2							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	300							A
Maximum Forward Voltage at 7.5A DC	V _F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T _J =25°C @ T _J =125°C	I _R	10 500							μA
Operating Temperature Range	T _J	-55 to+150							°C
Storage Temperature Range	T _{STG}	-55 to+150							°C

NOTES: 1.Device mounted on 100mm*100mm*1.6mm Cu plate heatsink.

RATING AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

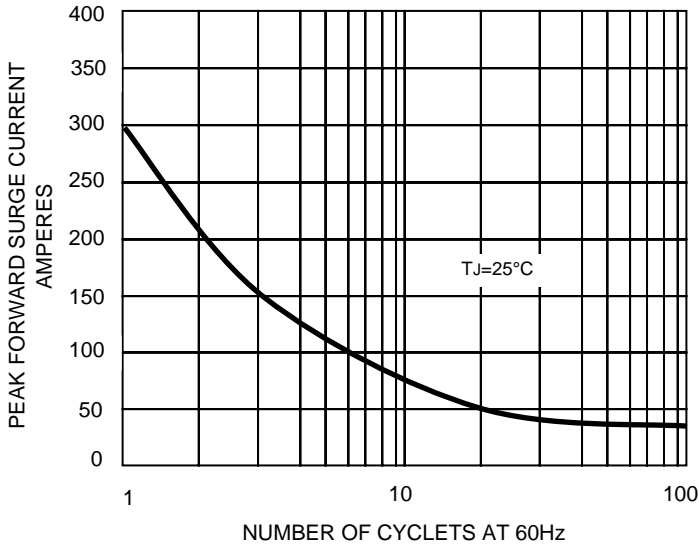


FIG. 2 – DERATING CURVE OUTPUT RECTIFIED CURRENT

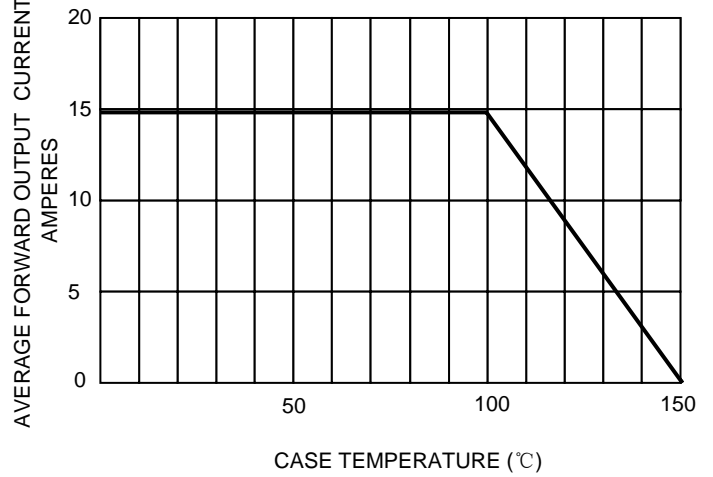


FIG.3– TYPICAL FORWARD CHARACTERISTICS

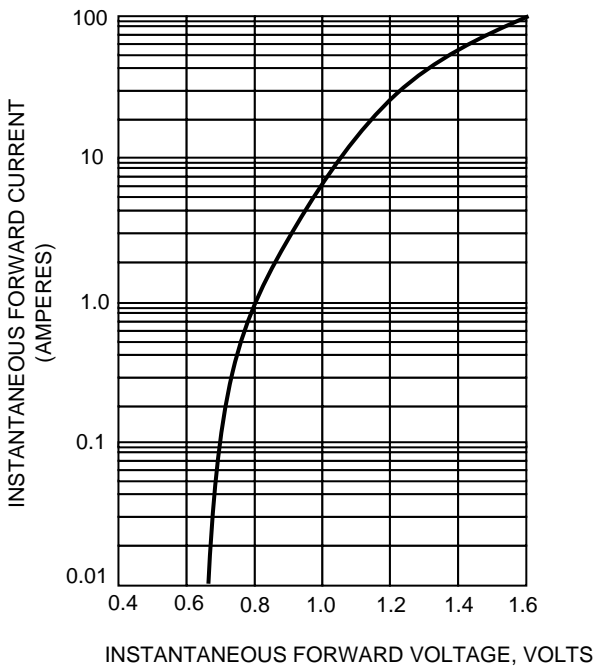
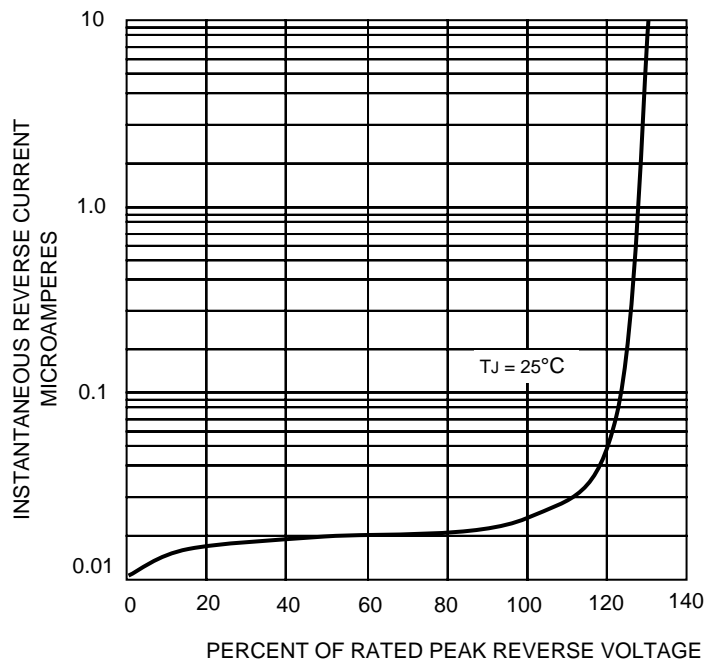


FIG.4– TYPICAL REVERSE CHARACTERISTICS



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!