

**GLASS PASSIVATED  
BRIDGE RECTIFIERS**

REVERSE VOLTAGE - 50 to 1000Volts  
FORWARD CURRENT - 25.0 Amperes

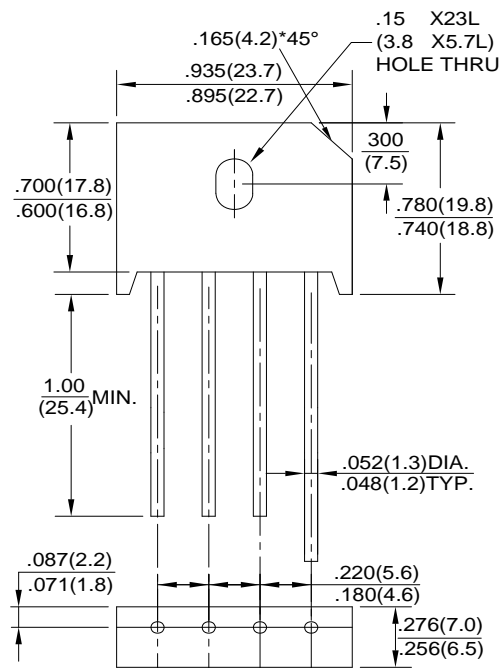
**Features**

- Surge overload rating -400 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**

T	K	B	U	4	0	0	5
1	2	3	4	5	6	7	8

Product Type

TSK	TKBU series
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Io (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 25005	TKBU 2501	TKBU 2502	TKBU 2504	TKBU 2506	TKBU 2508	TKBU 2510	UNIT	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V	
Maximum Average Forward (with heatsink Note 1) Rectified Current @ Tc=100°C (without heatsink)	I(AV)	25.0 3.6								A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	400								A
Maximum Forward Voltage at 12.5A DC	VF	1.1								V
Maximum DC Reverse Current @ Tj=25°C at Rated DC Blocking Voltage @ Tj=125°C	IR	10 500								µA
Operating Temperature Range	TJ	-55 to+150								°C
Storage Temperature Range	TSTG	-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

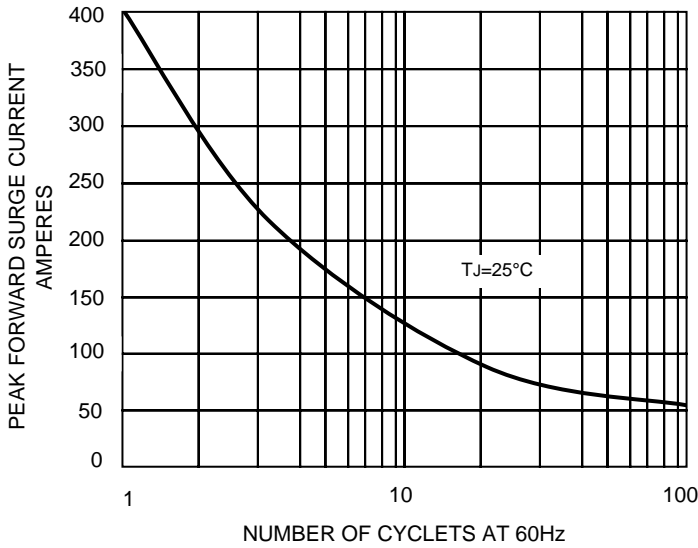


FIG. 2 – DERATING CURVE OUTPUT RECTIFIED CURRENT

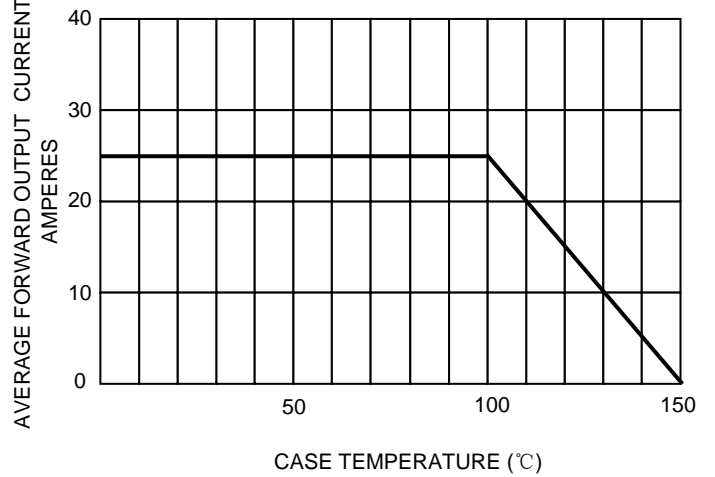


FIG.3– TYPICAL FORWARD CHARACTERISTICS

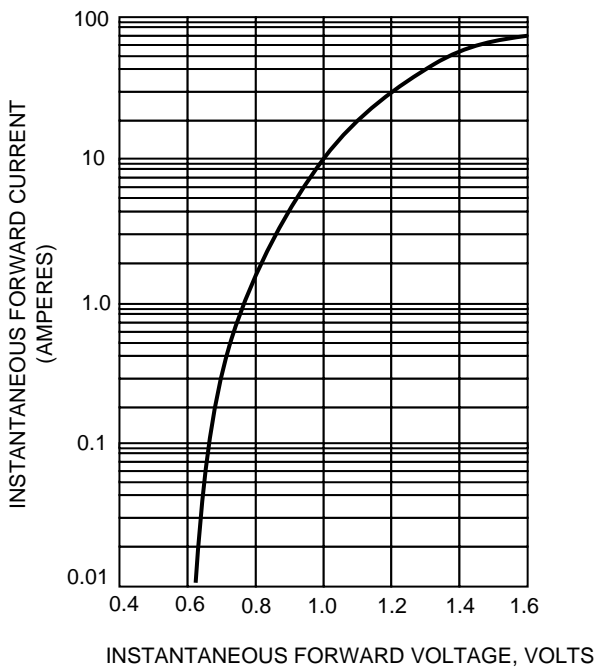
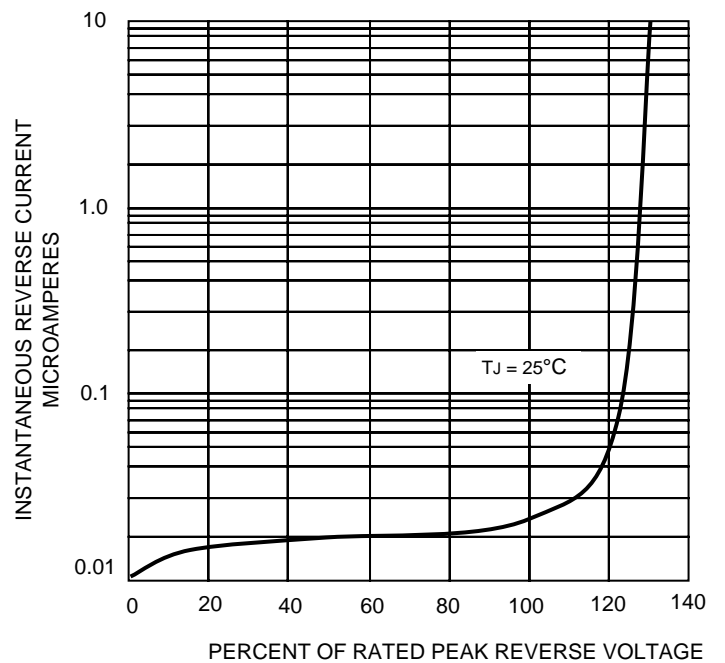


FIG.4– TYPICAL REVERSE CHARACTERISTICS



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