

**GLASS PASSIVATED
BRIDGE RECTIFIERS**

REVERSE VOLTAGE - **50 to 1000**Volts
FORWARD CURRENT - **4.0**Amperes

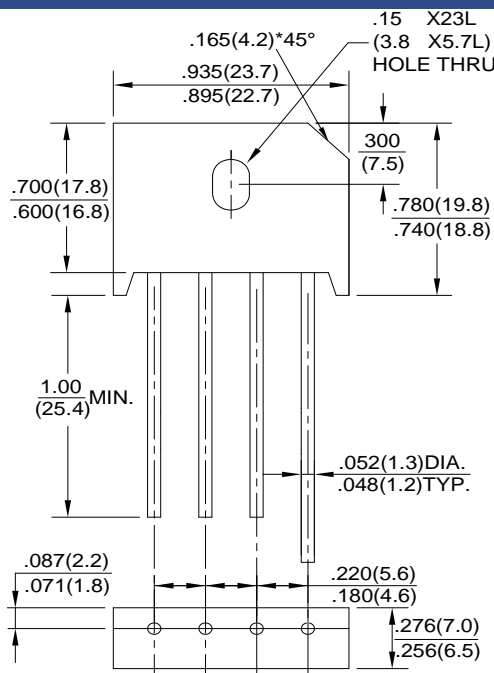
Features

- Surge overload rating -150 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has UL
- Mounting position: Any
- Mounting torque: 5 In.lb. Max

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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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	TKBU4005	TKBU401	TKBU402	TKBU404	TKBU406	TKBU408	TKBU410	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 Output Current at T _C =100°C	I _(AV)	4.0							A
Peak Forward Surge Current 8.3ms single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	150							A
Maximum Instantaneous Forward Voltage Drop per Element at 4.0A	V _F	1.0							V
Maximum Reverse Leakage at rated T _J =25°C	I _R	10							μA
DC Blocking Voltage Per Element T _J =100°C		100							
Typical Junction Capacitance Per Element (Note1)	C _J	110							pF
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to+150							°C

Note:1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.The typical data above is for reference only(典型值仅供参考).

RATING AND CHARACTERISTIC CURVES

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

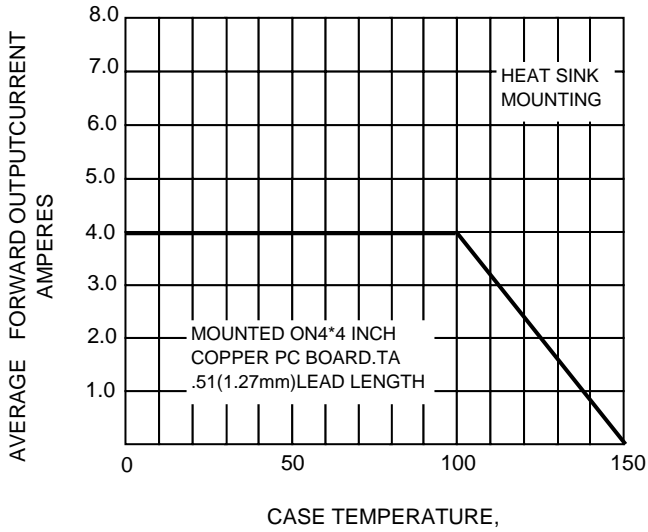


FIG.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

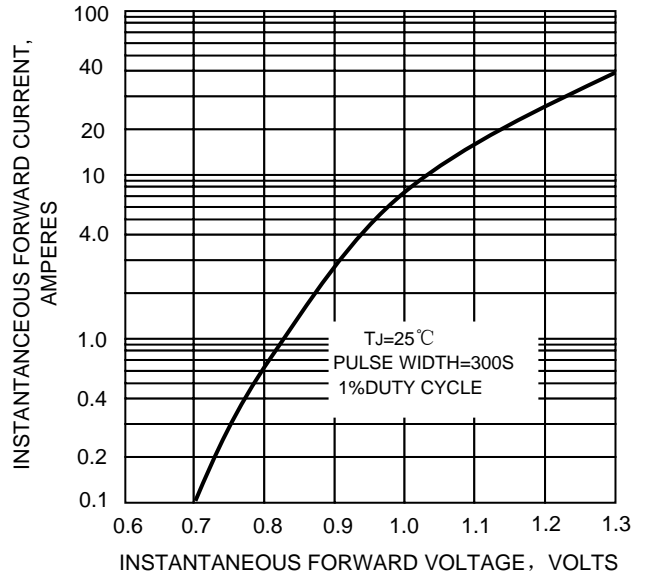


FIG.3-MAXIMUM NON-RETTITIVE PEAK FORWARD SURGE CURRENT

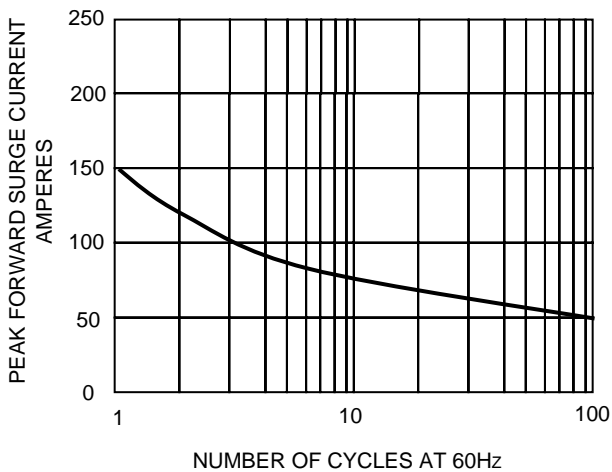


FIG.4-TYPICAL REVERSE CHARACTERISTICS

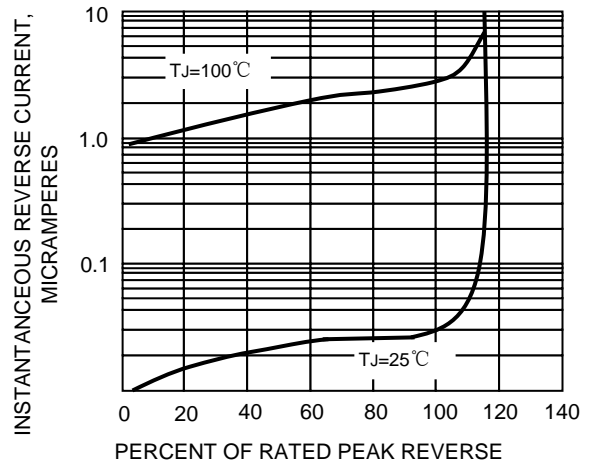


FIG.5-TYPICAL JUNCTION CAPACITANCE PER ELEMENT

