TKBU4005G thru TKBU410G

GLASS PASSIVATED
BRIDGE RECTIFIERS

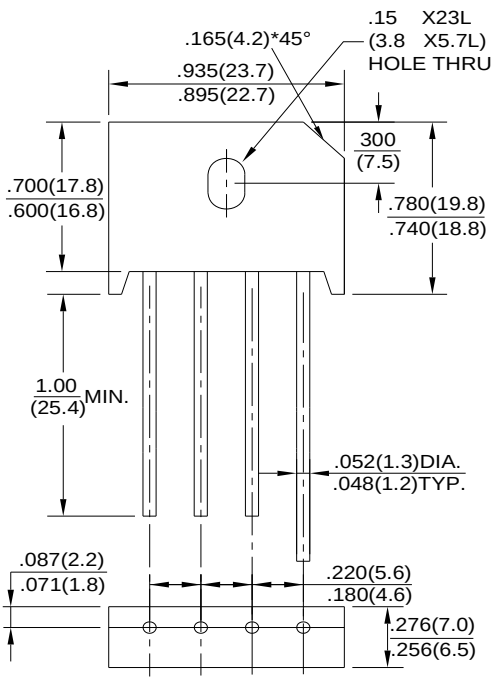
REVERSE VOLTAGE - **50** to **1000** Volts
FORWARD CURRENT - **2. 0** Ampere

Features

- Surge overload rating -125 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has UL
- Mounting postition:Any
- Mounting torgue:5 In.lb.Max

Dimensions In Inches and (milimeters)

TKBU



Dimensions in inches and (milimeters)

Part Number Code

T	K	B	U	4	0	0	5	G
1	2	3	4	5	6	7	8	9

Product Type	
TSK	TKBU series

Io (A)	
6	6A
8	8A
20	20A

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

ZZZ	Internal code rule

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	TKBU 4005G	TKBU 401G	TKBU 402G	TKBU 404G	TKBU 406G	TKBU 408G	TKBU 410G	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℃	$I_{(AV)}$	4.0							A
Peak Forward Surge Current 8.3ms single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	125							A
Maximum Instantanous Forward Voltage Drop per Element at4.0A	V_F	1.1							V
Maximum Reverse Leakage at rated T_J=25℃ DC Blocking Voltage Per Element T_J=100℃	I_R	10 100							μA
Typical Junction Capacitance Per Element (Note1)	C_J	110							pF
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

NOTES: 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

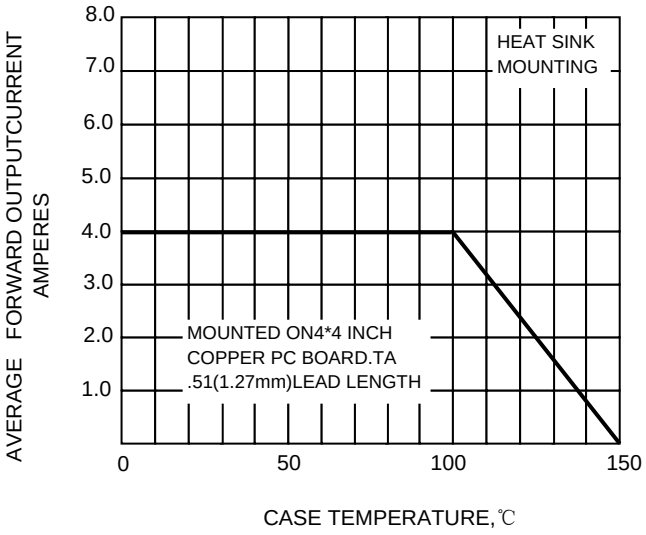


FIG.2 TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTIC

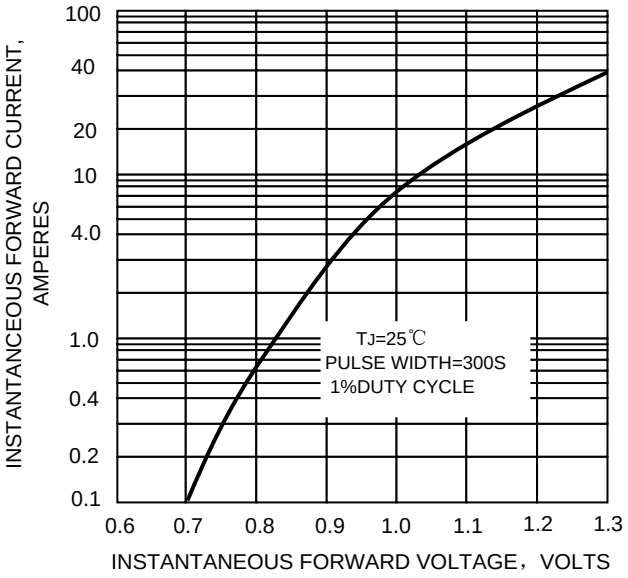


FIG.3-MAXIMUM NON-RETETITIVE PEAK
FORWARD SURGE CURRENT

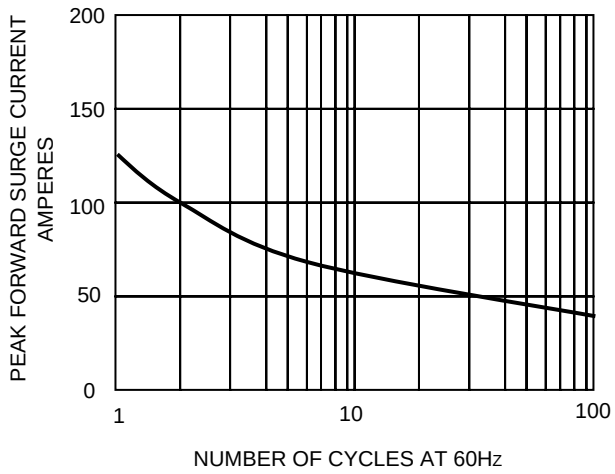


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

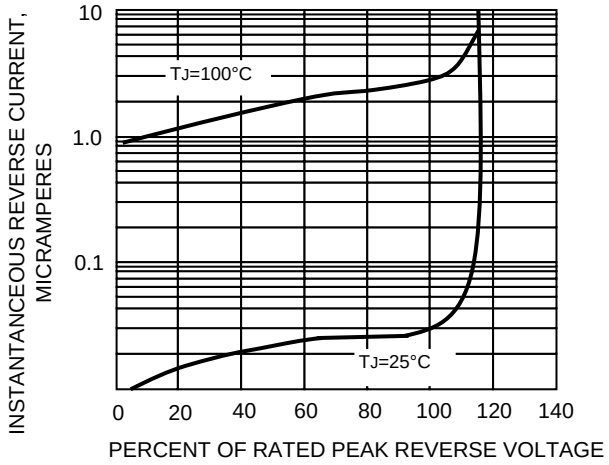


FIG.5-TYPICAL JUNCTION CAPACITANCE PER ELEMENT