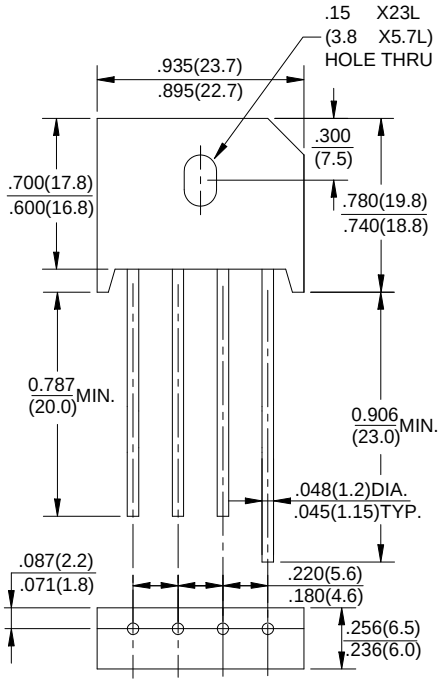
KBU10/15/25/35

BRIDGE RECTIFIERS



Dimensions in inches and (milimeters)

GLASS PASSIVATED BRIDGE RECTIFIERS
REVERSE VOLTAGE - **50** to **1000**Volts
FORWARD CURRENT - **10/15/25/35**Amperes

FEATURES

- ●Surge overload rating -200~300 amperes peak
- ●Ideal for printed circuit board
- ●Reliable low cost construction utilizing molded plastic technique
- ●Plastic material has UL flammability classification 94V-0
- ●Mounting postition:Any
- ●Mounting torgue:5 In.lb.Max
- ●Weight: 0.25ounces ,7.0grams

MAXIMUM RATINGS AND ELECTRICALCHARACTERISTICS

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	KBU 10005 15005 25005 35005	KBU 1001 1501 2501 3501	KBU 1002 1502 2502 3502	KBU 1004 1504 2504 3504	KBU 1006 1506 2506 3506	KBU 1008 1508 2508 3508	KBU 1010 1510 2510 3510	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 (with heatsink Note 2) Rectified Current @ T_C=100℃ (without heatsink)	$I_{(AV)}$	KBU 10	10 3.0	KBU 15	15 3.2	KBU 25	25 3.6	KBU 35	35 4.2	A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}		200		250		300		300	A
Maximum Forward Voltage at 5.0/7.5/12.5/17.5A DC	V_F	1.1								V
Maximum DC Reverse Current @ T_J=25℃ at Rated DC Blocking Voltage @ T_J=125℃	I_R	10 500								uA
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.Device mounted on 100mm*100mm*1.6mm cu plate heatsink.

Characteristic Curves (T_A=25 ℃ unless otherwise noted)

FIG. 1 – MAXIMUM FORWARD SURGE CURRENT

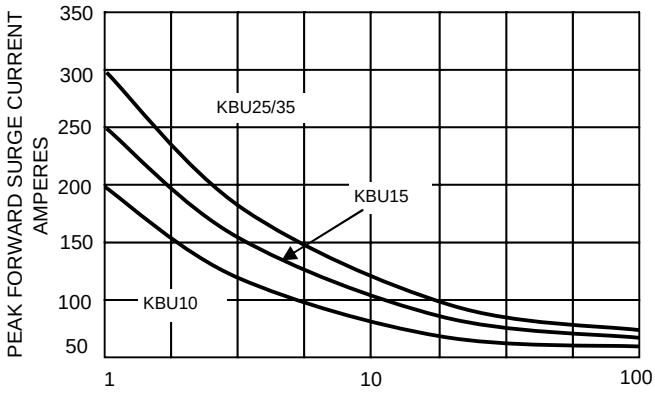


FIG.2– TYPICAL FORWARD CHARACTERISTICS

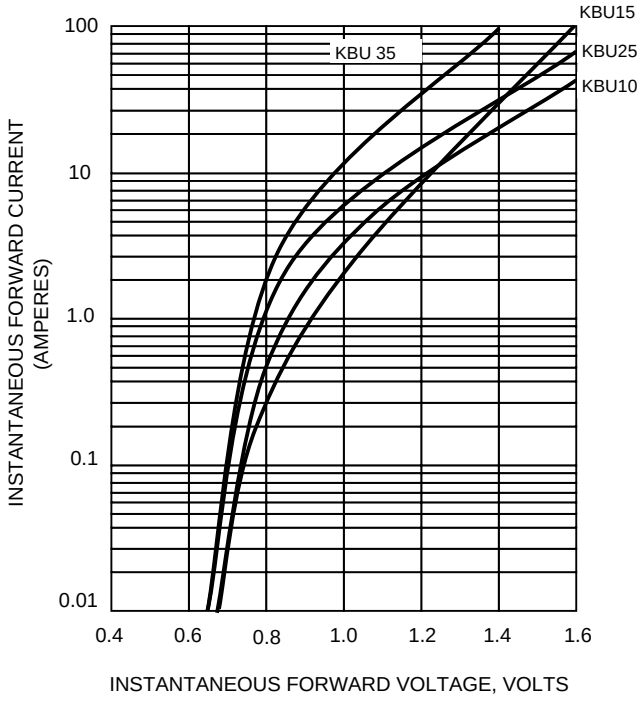


FIG.3– TYPICAL REVERSE CHARACTERISTICS

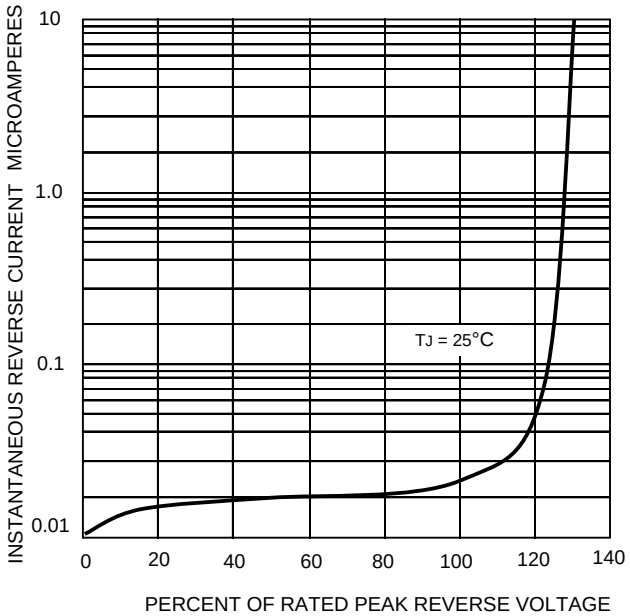


FIG. 4 – DERATING CURVE OUTPUT RECTIFIED CURRENT

