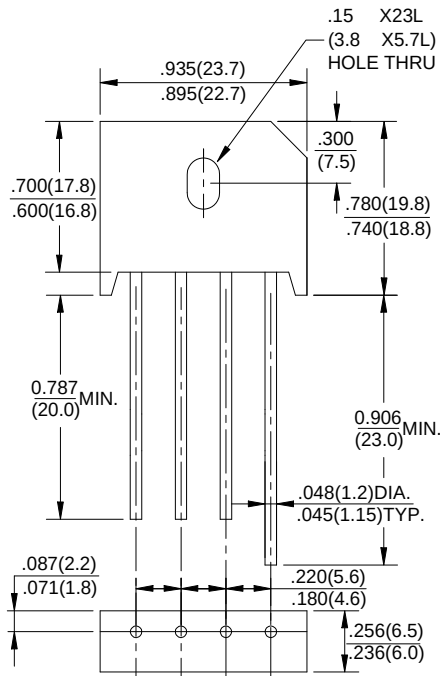




KBU10/15/25/35

BRIDGE RECTIFIERS



Dimensions in inches and (millimeters)

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000Volts

FORWARD CURRENT - 10/15/25/35Amperes

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 position: Any
- Mounting torque: 5 In.lb. Max
- Weight: 0.25ounces , 7.0grams

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	KBU	KBU	KBU	KBU	KBU	KBU	KBU	UNIT	
		10005	1001	1002	1004	1006	1008	1010		
		15005	1501	1502	1504	1506	1508	1510		
		25005	2501	2502	2504	2506	2508	2510		
		35005	3501	3502	3504	3506	3508	3510		
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)	I _(AV)	KBU 10	10	KBU 15	15	KBU 25	25	KBU 35	35	A
Rectified Current @ T _c =100℃ (without heatsink)			3.0		3.2		3.6		4.2	
Peak Forward Surge Current	I _{FSM}		200		250		300		300	A
8.3ms Single Half Sine-Wave										
Super Imposed on Rated Load (JEDEC Method)										
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℃	I _R	10								uA
at Rated DC Blocking Voltage @ T _J =125℃		500								
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.





KBU10/15/25/35

BRIDGE RECTIFIERS

Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

FIG. 1 – MAXIMUM FORWARD SURGE CURRENT

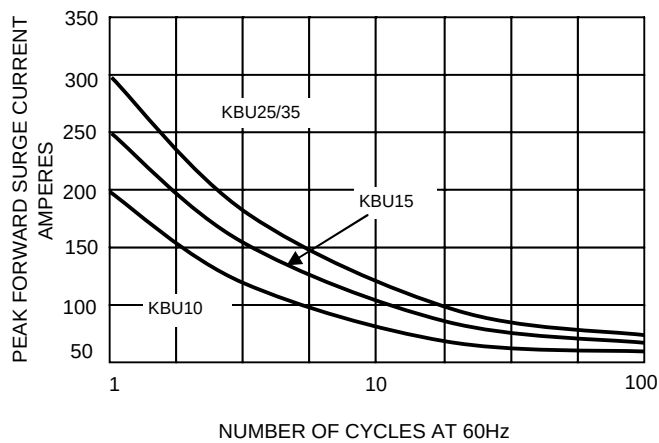


FIG.2– TYPICAL FORWARD CHARACTERISTICS

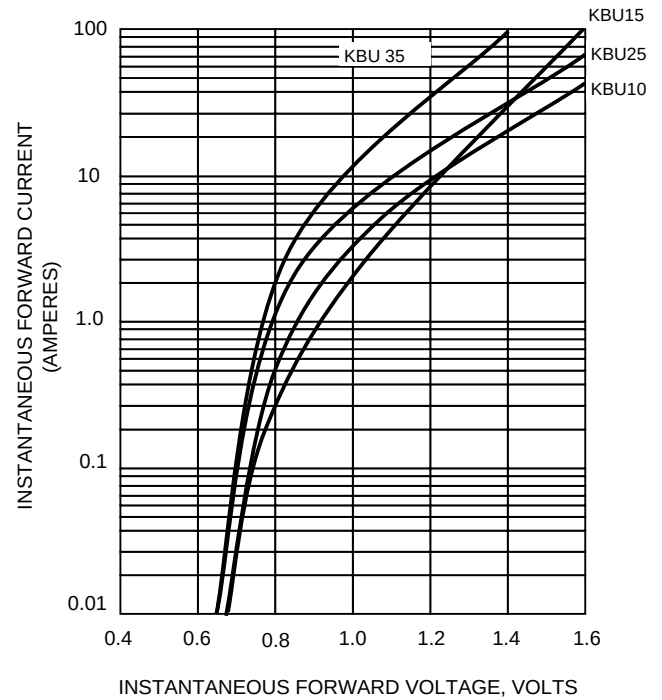


FIG.3– TYPICAL REVERSE CHARACTERISTICS

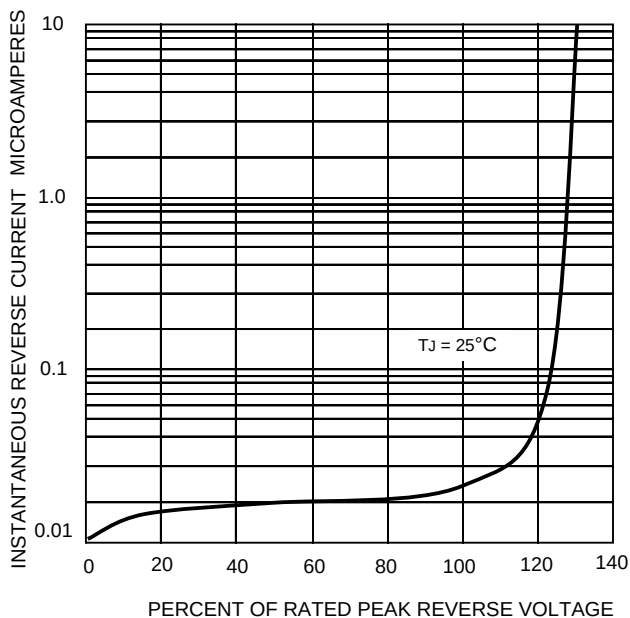


FIG. 4 – DERATING CURVE OUTPUT RECTIFIED CURRENT

