



# KBU8005 thru KBU810

## GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000Volts

FORWARD CURRENT - 8 Amperes

### FEATURES

- Surge overload rating -175 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
- Weight: 0.26ounces ,7.4grams

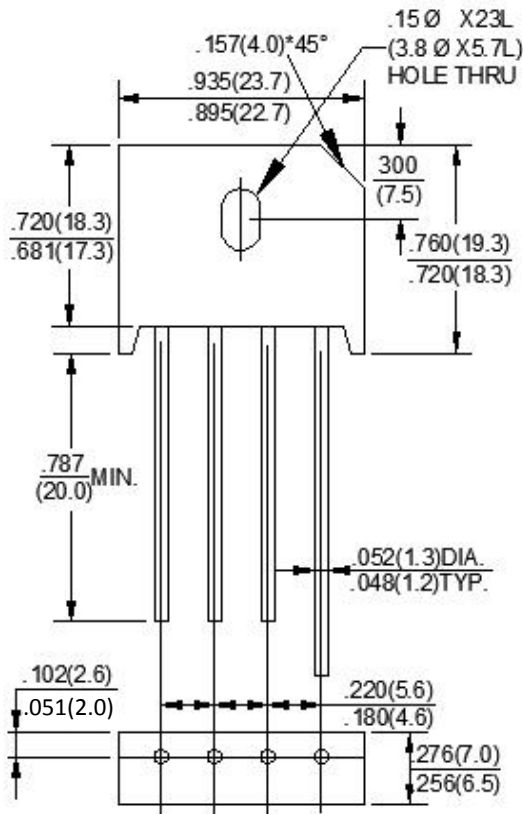
### MAXIMUM RATINGS

### 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%



Package: KBU

CHARACTERISTICS	KBU	KBU	KBU	KBU	KBU	KBU	KBU	UNIT
	8005	801	802	804	806	808	810	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward $T_C=100^{\circ}\text{C}$	8.0							A
Rectified Output Current at $T_A=45^{\circ}\text{C}$	6.0							A
Peak Forward Surge Current 8.3ms single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	175							A
Maximum Instantaneous Forward Voltage Drop per Element at 4.0A	1.1							V
Maximum Reverse Leakage at rated $T_A=25^{\circ}\text{C}$	10							$\mu\text{A}$
DC Blocking Voltage Per Element $T_A=100^{\circ}\text{C}$	1000							$\mu\text{A}$
Operating and Storage Temperature Range $T_J, T_{STG}$	-55 to +150							$^{\circ}\text{C}$



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## GLASS PASSIVATED BRIDGE RECTIFIERS RATING AND CHARACTERISTIC CURVES

FIG.1-DERATING CURVE FOR  
OUTPUT RECTIFIED CURRENT

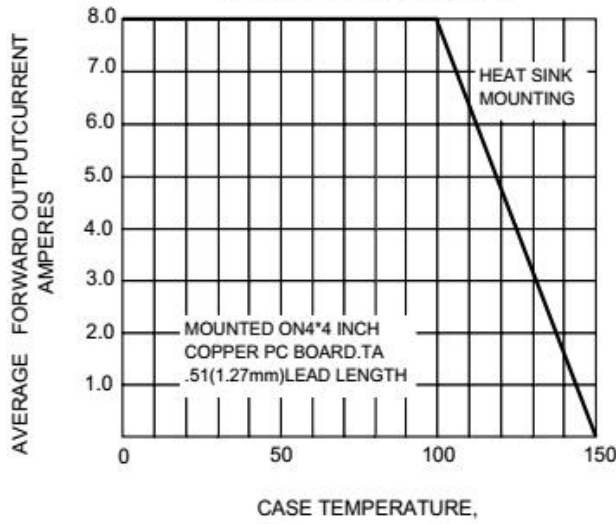


FIG.2 TYPICAL INSTANTANEOUS FORWARD  
CHARACTERISTIC

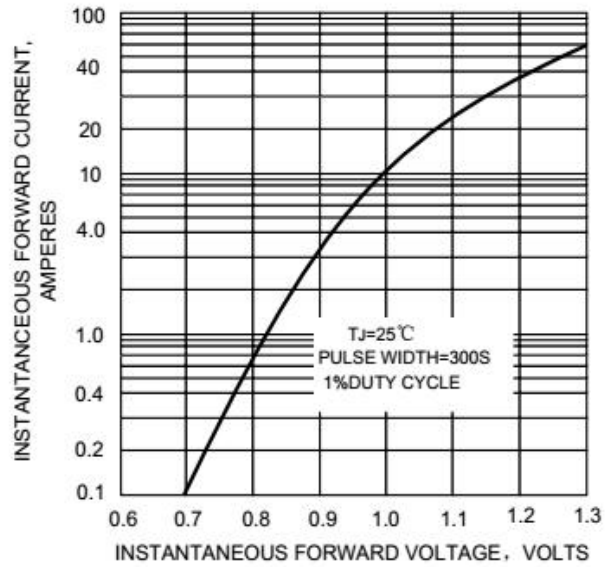


FIG.3-MAXIMUM NON-RETETITIVE PEAK  
FORWARD SURGE CURRENT

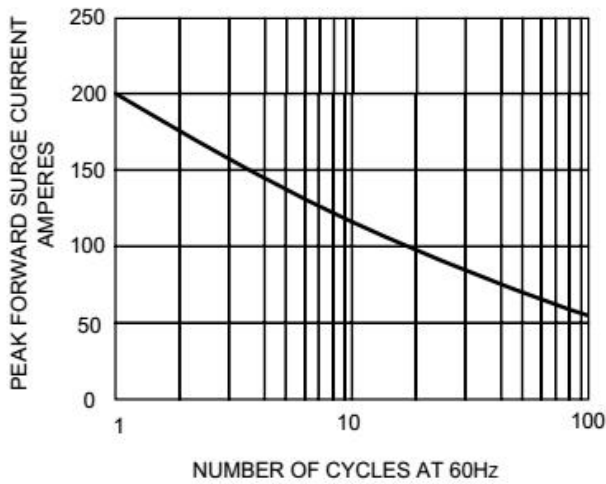


FIG.4-TYPICAL REVERSE  
CHARACTERISTICS

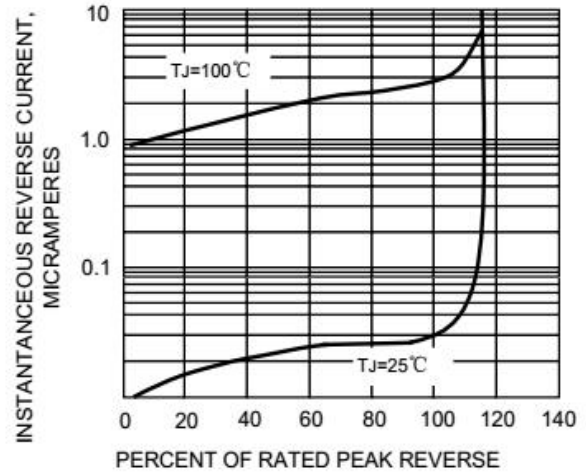


FIG.5-TYPICAL JUNCTION CAPACITANCE PER ELEMENT

