

# KBU10005 THRU KBU1010

## Single Phase 10 Amps. Glass Passivated Bridge Rectifiers

### Features

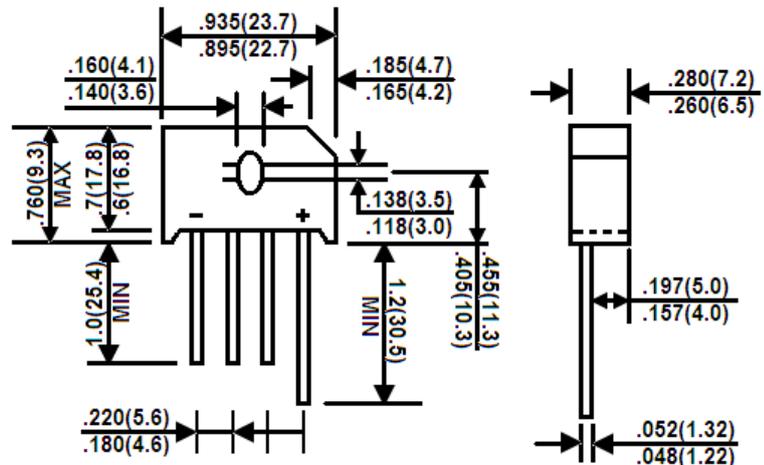
- \* Ideal for printed circuit board
- \* High surge current capability
- \* Reliable low cost construction technique results in inexpensive product



RoHS  
COMPLIANT

### Package Outline Dimensions in inches (millimeters)

KBU:



### Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbols	KBU 10005	KBU 1001	KBU 1002	KBU 1004	KBU 1006	KBU 1008	KBU 1010	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_C=75^\circ\text{C}$ (Note1/2)	$I_{F(AV)}$	10.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	175							A
Maximum Forward Voltage Drop per element at 5.0A	$V_F$	1.10							V
Maximum Reverse Current @ $T_A=25^\circ\text{C}$ at Rated D.C Blocking Voltage @ $T_A=125^\circ\text{C}$	$I_R$	10 500							$\mu\text{A}$
Typical thermal resistance per leg (Note2)	$R_{\theta JL}$	2.2							$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^\circ\text{C}$

Note:

1. Recommended mounted position is to bolt down on heat sink with silicone thermal compound for maximum heat transfer with #6 screw.
2. Thermal resistance from junction to case with units mounted on a 4.0×4.0×0.11" (10.2×10.2×0.3cm) Cu. plate.

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## Ratings and Characteristic Curves

FIG. 1 – MAXIMUM NON – REPETITIVE FORWARD SURGE CURRENT – PER ELEMENT

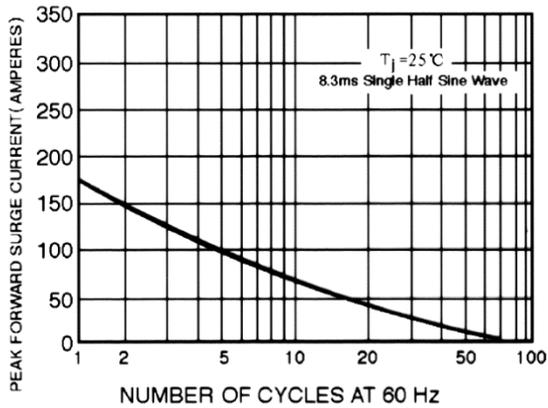


FIG. 2 – TYPICAL FORWARD OUTPUT CURRENT DERATING CURVE

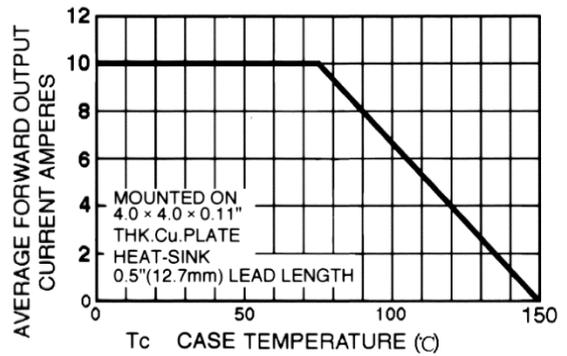


FIG. 3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS – PER ELEMENT

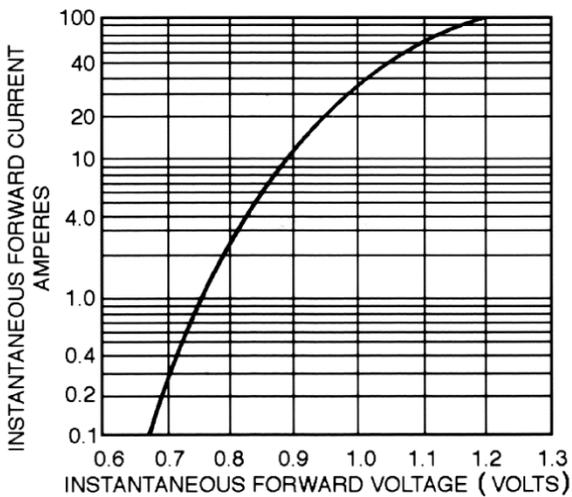
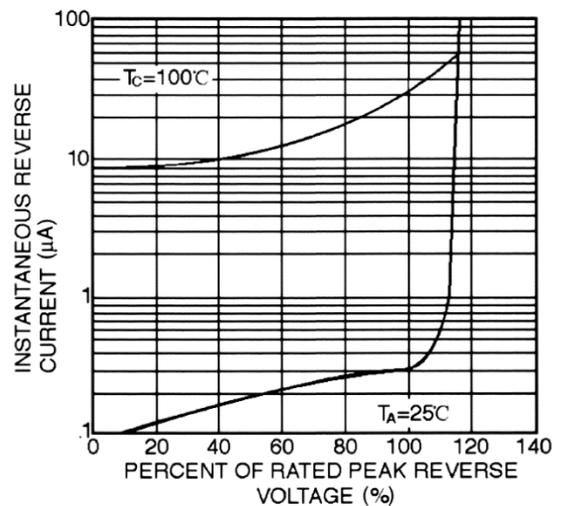


FIG. 4 – TYPICAL REVERSE CHARACTERISTICS – PER ELEMENT



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**Ordering Information**

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<b>Part No.</b>	<b>Package</b>	<b>Packing</b>
KBU10005~KBU1010	KBU	0.4K/Tray