#### **KBU8005 THRU KBU810**

# SINGLE – PHASE BRIDGE RECTIFIERS Reverse Voltage – 50 to 1000 Volts Forward Current – 8.0 Amperes

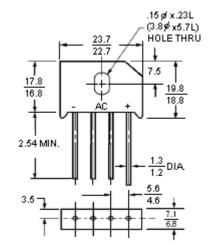
#### **Features**

- Ideal for printed circuit board.
- Reliable low cost construction utilizing molded plastic technique
- · Low forward voltage drop
- · Low reverse leakage current
- · High surge current capability

#### **Features**

· Case: Molded plastic, KBU

#### **KBU**



Dimensions in mm

#### **Absolute Maximum Ratings and Characteristics**

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

defate current by 20%.									
	Symbols	KBU 8005	KBU 801	KBU 802	KBU 804	KBU 806	KBU 808	KBU 810	Units
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	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 current 0.375" (9.5mm) Lead Length at $T_A = 55^{\circ}$ C.	I <sub>(AV)</sub>	8							А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	300							А
Maximum forward voltage at 8.0A DC and 25 $^{\circ}\!$	V <sub>F</sub>	1.1							V
Maximum reverse current at $T_A$ = 25°C at rated DC blocking voltage $T_A$ = 100°C	I <sub>R</sub>	10 50							μ <b>Α</b> μ <b>Α</b>
Typical thermal resistance (Note 1)	R⊕JA	18						°C/W	
Typical thermal resistance (Note 2)	ReJC	3						°C/W	
Operating and storage temperature range	T <sub>J</sub> ,T <sub>S</sub>	-55 to +125							$^{\circ}\!\mathbb{C}$

- 1) Units mounted in free air, no heatsink, P.C.B. at 0.375"(9.5mm) lead length with 0.5x0.5" (12x12mm) copper pads.
- 2) Units mounted on a 3.0x3.0" x 0.11" thick (7.5x7.5x0.3cm) Al. Plate heatsink.



## SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, acompany listed on the Hong Kong Stock Exchange, Stock Code: 724)

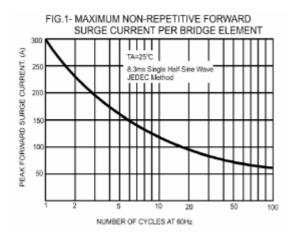


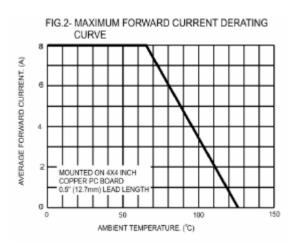


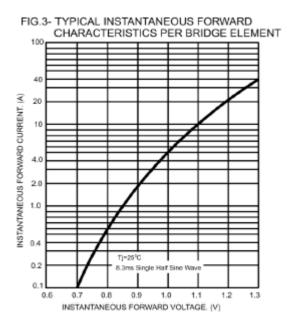


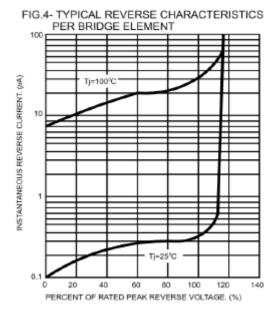
Dated: 30/06/2005 H

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