



KBU601 THRU KBU610

BRIDGE RECTIFIER
Reverse Voltage: 100 to 1000 Volts
Forward Current: 6.0 Amps

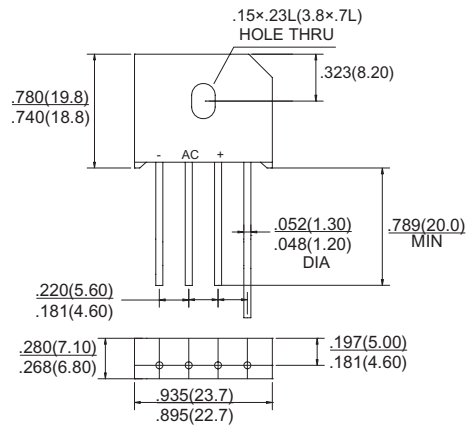
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High current capability
- Low forward voltage drop
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU

MECHANICAL DATA

- Case: KBU molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750, method 2026
- Mounting Position: Any

KBU



Dimensions in inches and (millimeters)

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%.)

	Symbols	KBU601	KBU602	KBU604	KBU606	KBU608	KBU610	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	Volts
Average Rectified Output Current	I_o	2.5						Amp
		6.0						
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	135						Amps
Rating for fusing (t < 8.3ms)	I^2t	75						A ² s
Maximum Instantaneous Forward Voltage at 6.0 A DC	V_F	1.1						Volts
Maximum DC Reverse Current at rated DC blocking voltage	I_R	10						μA
		500						
Typical thermal resistance	$R_{\theta JA}$	9 ¹⁾						°C/W
	$R_{\theta JC}$	5 ²⁾						
Operating temperature range	T_J	-55 to +150						°C
Storage temperature range	T_{STG}	-55 to +150						°C

NOTE: 1. Units Mounted in free air, on heat sink, P. C. B. at 0.375" (9.5mm) lead length with 0.5x0.5" (12x12mm) copper areas.

2. Units Mounted on a aluminum plate heat sink.

RATINGS AND CHARACTERISTIC CURVES KBU601 THRU KBU610

