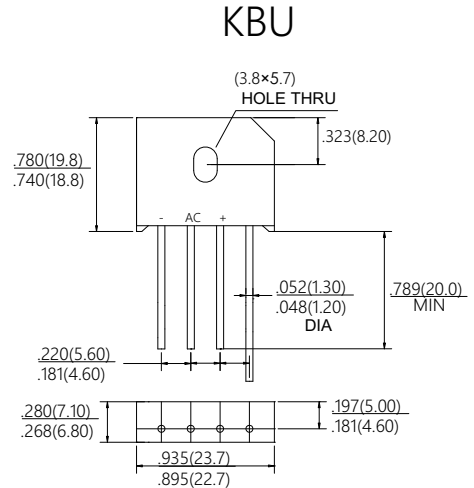


FEATURES

- 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



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%.)

Parameter	Symbols	KBU1501	KBU1502	KBU1504	KBU1506	KBU1508	KBU1510	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	15.0						Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	220						Amps
Rating for fusing (t<8.3ms)	I^2t	201						A ² s
Maximum Instantaneous Forward Voltage at 7.5 A DC	V_F	1.1						Volts
Maximum DC Reverse Current at rated DC blocking voltage	$T_A=25^\circ\text{C}$	10						μA
	$T_A=125^\circ\text{C}$	500						
Typical thermal resistance	$R_{\theta JC}$	3 ¹⁾						°C/W
Operating temperature range	T_J	-55 to +150						°C
Storage temperature range	T_{STG}	-55 to +150						°C

NOTE: 1. Units Mounted on a aluminum plate heat sink.

RATINGS AND CHARACTERISTIC CURVES KBU1501 THRU KBU1510

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

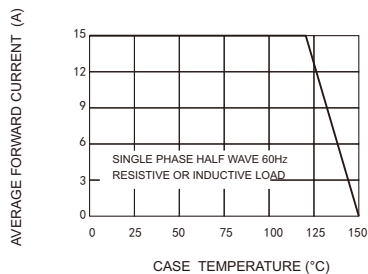


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

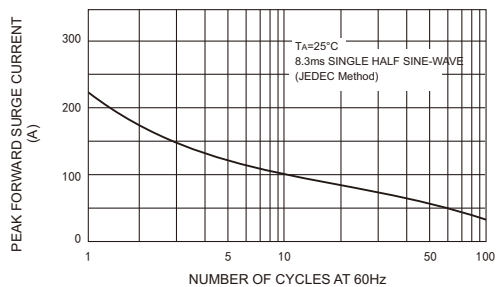


FIG.3-TYPICAL REVERSE CHARACTERISTICS

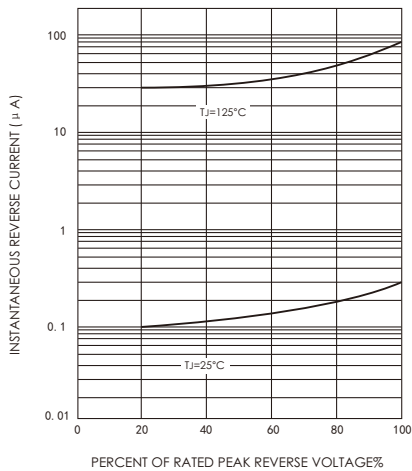


FIG4-TYPICAL FORWARD CHARACTERISTICS

