Single Phase 6.0Amp Glass Passivated Bridge Rectifiers

KBU

Features

The plastic package carries Underwriters Laboratory

Flammability Classification 94V-0

Idea for printed circuit board

Glass passivated junction chip

Low reverse leakage

High forward surge current capability

High temperature soldering guaranteed

260 C/10 seconds at terminals

Mechanical Data

Case: Molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbol marking on body

Mounting Position: Any

.15ØX23L .38ØX67.1 .935(23.7) .895(22.7) .700(17.8) .600(16.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8)

Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

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

Parameter	SYMBOLS	KBU610	UNITS
Maximum repetitive peak reverse voltage	Vrrm	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC blocking voltage	VDC	1000	V
Maximum average forward rectified current with heatsink	l(AV)	6.0	А
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	lfsm	150.0	А
Rating for fusing (t=8.3ms, Ta=25°C)	l ² t	93.3	A ² s
Maximum instantaneous forward voltage at 6.0A	VF	1.10	V
Maximum DC reverse current T = 25°C at rated DC blocking voltage Ta=100°C	lR	5.0 200	uА
Typical junction capacitance (Note 1)	Cì	45.0	pF
Typical thermal resistance	RqJA	35.0	°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150	°C

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

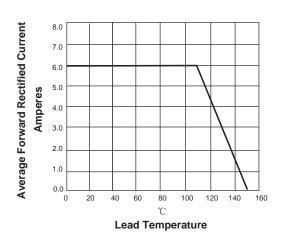


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

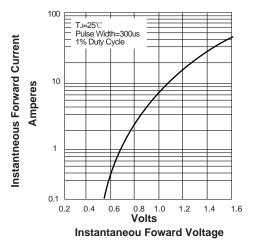


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

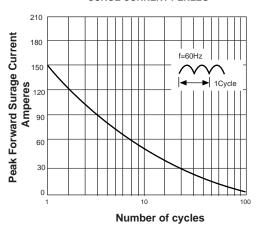
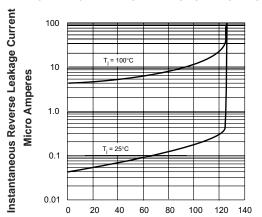


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

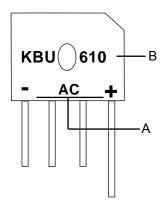


Percent Of Rated Peak Reverse Voltage(%)

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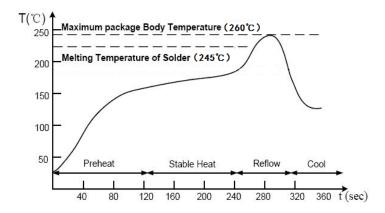
Marking



Symbol	Explanation	
Α	Polarity Symbol	
В	Product Name	

Glass Passivated Bridge Rectifiers

Suggested Soldering Temperature Profile



Note

 $\label{lem:Recommended} \textbf{Recommended reflow methods: IR, vapor phase oven, hot air oven, wave solder.}$

The device can be exposed to a maximum temperature of 260°C for 10 seconds.

Devices can be cleaned using standard industry methods and solvents.

If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

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