

10/15/25A Single-Phase GLass Passivated Bridge Rectifiers



Rectifier Reverse Voltage 50V to 1000V

KBU

Features

- Glass passivated junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Surge overload ratings to 125 thru 175 amperes peak
- Ideal for printed circuit board application
- High temperature soldering guaranteed 265°C/10

Mechanical Data

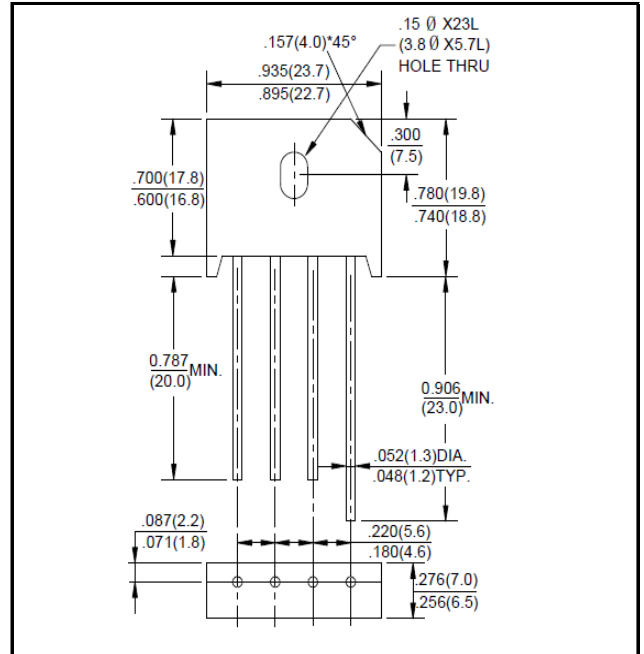
Case: Molded plastic

Terminals: Plate leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols molded or Marked on body

Mounting Position: Any

Weight: 0.25ounce, 7.0 grams (approx)



Maximum Ratings & Thermal Characteristics

Dimensions in inches and (millimeters)

Rating at 25°C ambient temperature unless otherwise specified, Resistive or inductive load, 60HZ.

For Capacitive load derate current by 20%

Parameter	Symbol	KBU10A	KBU10B	KBU10D	KBU10G	KBU10J	KBU10K	KBU10M	unit
		KBU15A	KBU15B	KBU15D	KBU15G	KBU15J	KBU15K	KBU15M	
		KBU25A	KBU25B	KBU25D	KBU25G	KBU25J	KBU25K	KBU25M	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward (with heatsink Note 1)	IF(AV)	KBU10	10.0	KBU15	15.0		KBU25	25.0	A
Rectified current @Tc=100℃(without heatsink)			3.0		3.2			3.6	
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM		200		250			300	A
Maximum instantaneous forward voltage drop per element at 5.0A /7.5A/12.5A	VF		1.1		1.1			1.1	V
Maximum DC reverse current at ratde TA=25℃ DC blocking voltage per element TA=100℃	IR		10 1000		10 1000			10 1000	10 1000
Operating and storage temperature range	TJ,TSTG	-55to+150							℃

Note: 1 Device mounted on 100mm*100mm*1.6mm Cu plate heatsink.

Rating and Characteristic Curves(TA=25°C Unless otherwise noted)

FIG.1-DERATING CURVE FOR

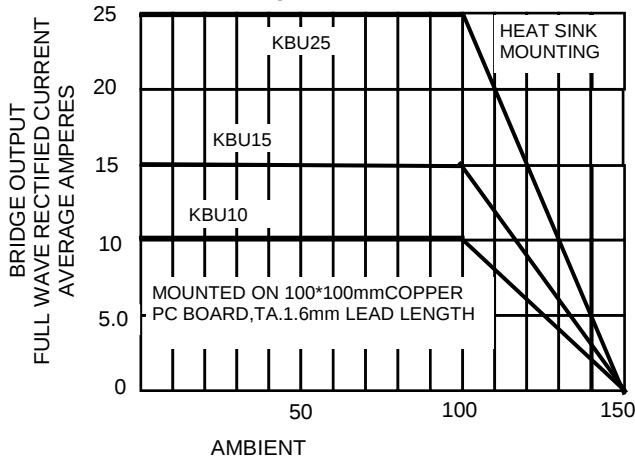


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

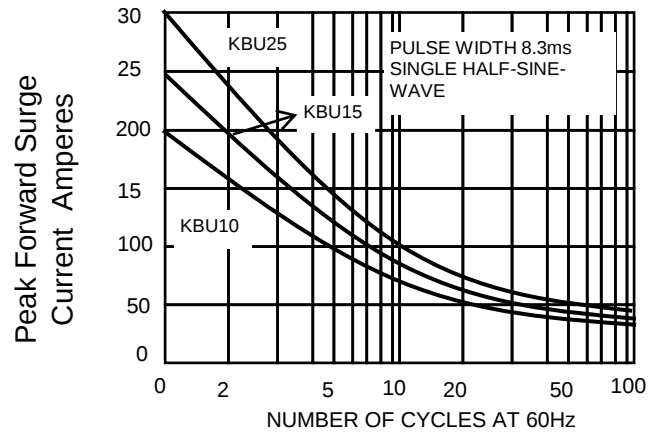


FIG.3-TYPICAL REVERSE CHARACTERISTICS

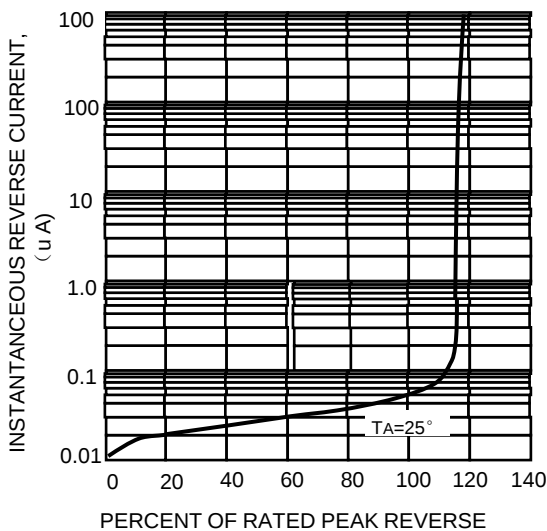


FIG.4-TYPICAL FORWARD CHARACTERISTICS

