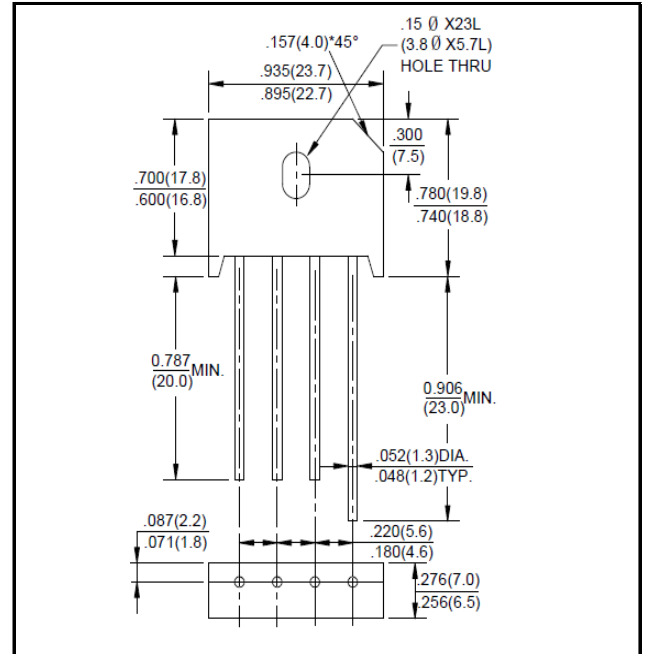


4/6/8A Single-Phase GLass Passivated Bridge Rectifiers


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	KBU4005	KBU401	KBU402	KBU404	KBU406	KBU408	KBU410	unit	
		KBU6005	KBU601	KBU602	KBU604	KBU606	KBU608	KBU610		
		KBU8005	KBU801	KBU802	KBU804	KBU806	KBU808	KBU810		
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 rectified output current at TA=40 °C	IF(AV)		4.0		6.0			8.0	A	
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM		125		150			175	A	
Maximum instantaneous forward voltage drop per element at 2.0A /3.0A/4.0A	VF	KBU4	1.05	KBU6	1.05	KBU8		1.05	V	
Maximum DC reverse current at ratde TA=25 °C	IR		5		5			5	UA	
DC blocking voltage per element TA=100 °C			100		100			100		
Typical junction capacitance per element(NOTE)	C _J		110		260			250	pF	
Operating and storage temperature range	TJ,TSTG	-55to+150								°C

Note: 1 Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

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

FIG.1-DERATING CURVE FOR

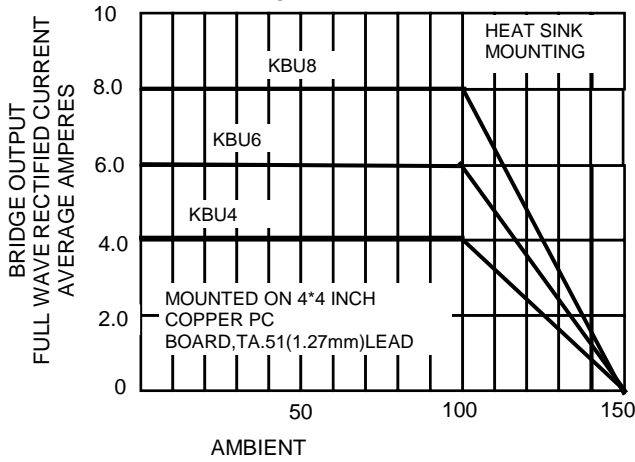


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

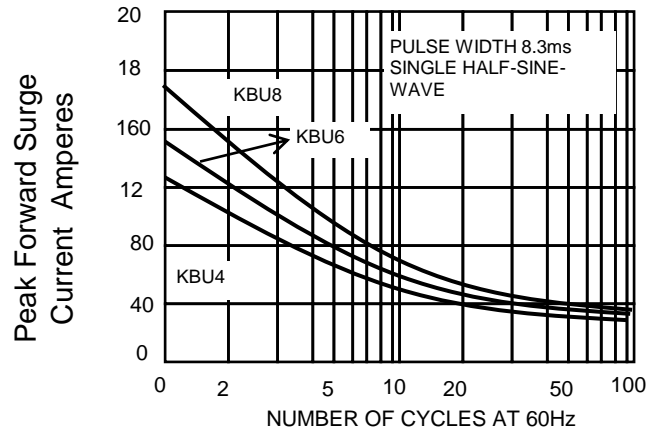


FIG.3-TYPICAL REVERSE CHARACTERISTICS

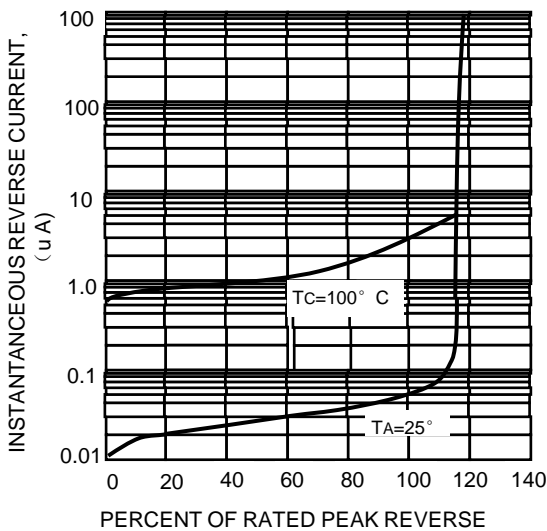


FIG.4-TYPICAL FORWARD CHARACTERISTICS

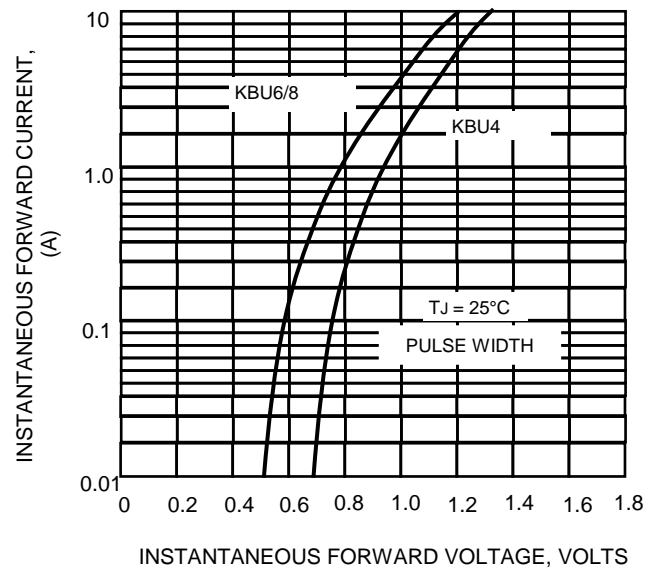


FIG.5-TYPICAL JUNCTION

