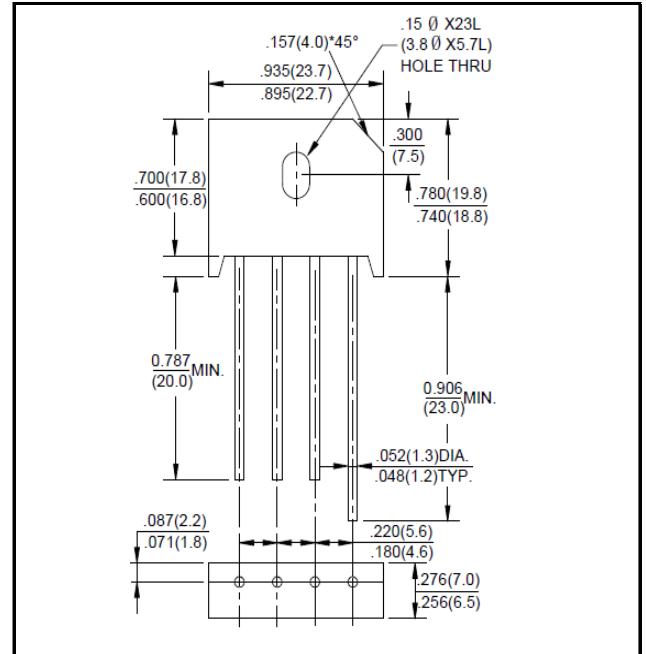


**4/6/8A Single-Phase GLass Passivated Bridge Rectifiers**


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: 0.25 ounce, 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	KBU4A	KBU4B	KBU4D	KBU4G	KBU4J	KBU4K	KBU4M	unit
		KBU6A	KBU6B	KBU6D	KBU6G	KBU6J	KBU6K	KBU6M	
		KBU8A	KBU8B	KBU8D	KBU8G	KBU8J	KBU8K	KBU8M	
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 <sub>J</sub>		110		260			250	pF
Operating and storage temperature range	T <sub>J</sub> ,T <sub>STG</sub>	-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

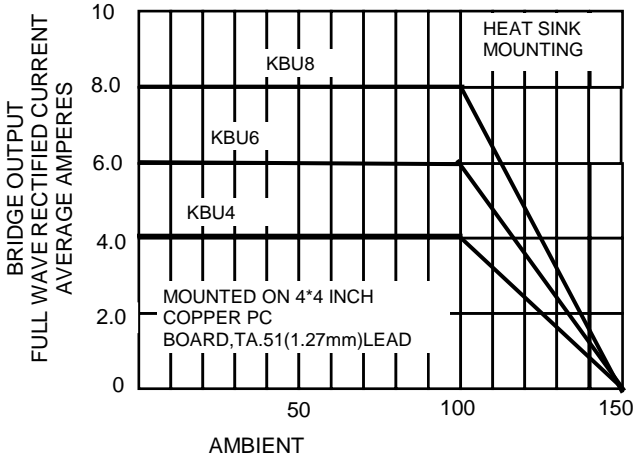


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

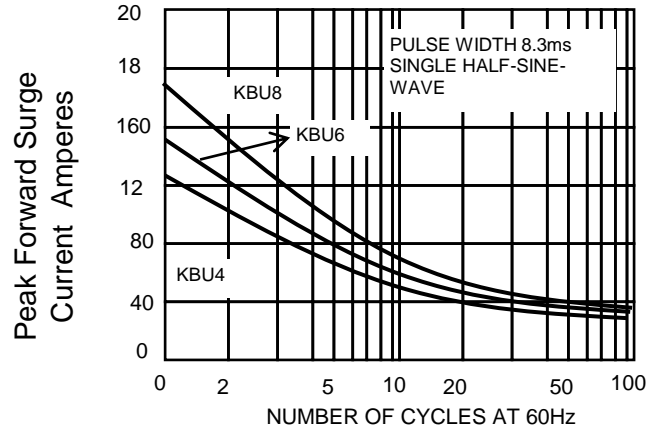


FIG.3-TYPICAL REVERSE CHARACTERISTICS

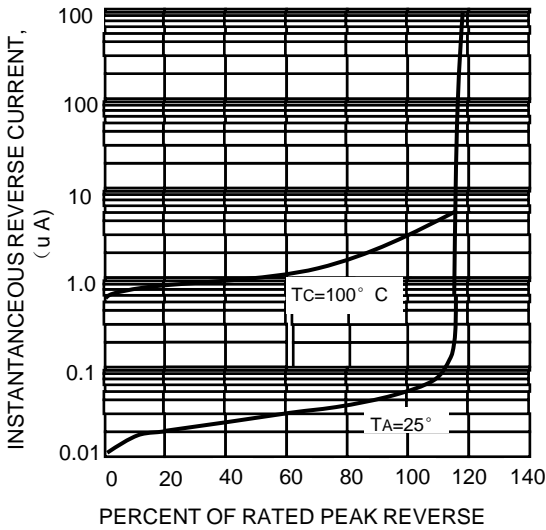


FIG.4-TYPICAL FORWARD CHARACTERISTICS

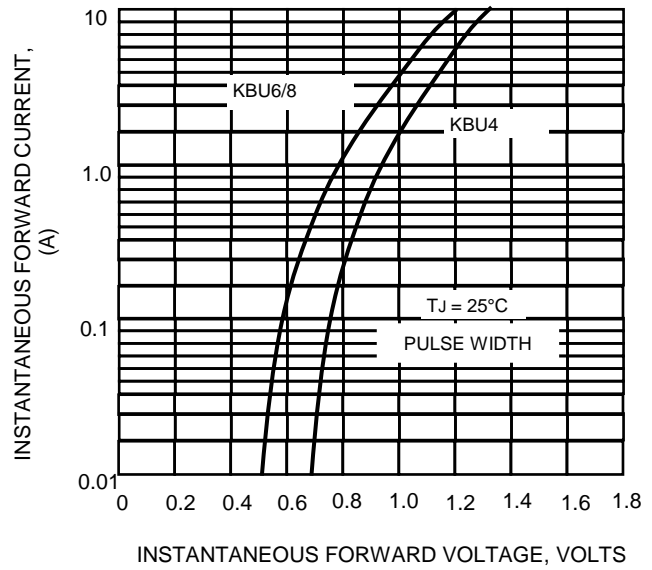


FIG.5-TYPICAL JUNCTION

