

### Features

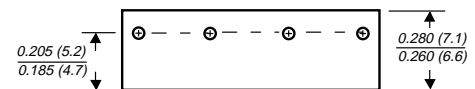
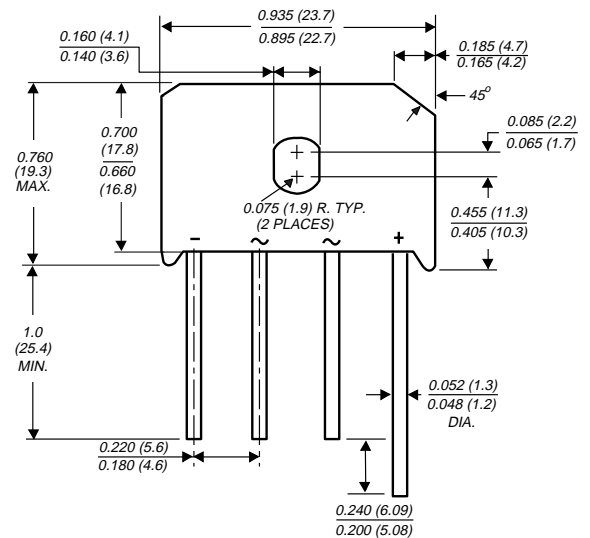
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- This series is UL listed under Recognized under Component Index, file number E54214
- High case dielectric strength of 1500 VRMS
- Ideal for printed circuit boards
- Surge overload rating of 200 Amperes peak  
Typical  $I_R$  less than  $0.1\mu A$
- High temperature soldering guaranteed:  
250°C/10 seconds, 0.375" (9.5mm) lead length,  
5lbs (2.3kg) tension

### Mechanical Data

- Case: Molded plastic body
- Terminals: Plated lead solderable per MIL-STD-750, Method 2026
- Mounting Position: Any
- Mounting Torque: 5 in.-lb. max.
- Weight: 0.3 ounce, 8.0 grams



**Case Style KBU**



*Dimensions in inches and (millimeters)*

### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

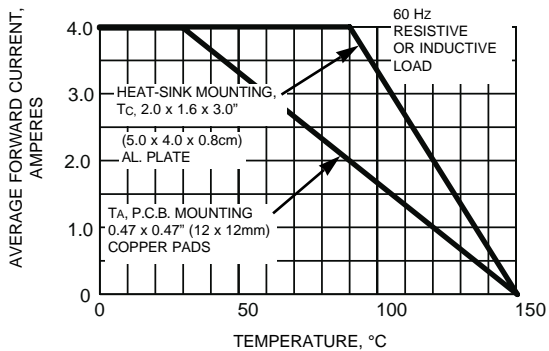
	SYMBOLS	KBU 4A	KBU 4B	KBU 4D	KBU 4G	KBU 4J	KBU 4K	KBU 4M	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified output current at T <sub>C</sub> =100°C (NOTE 1) T <sub>A</sub> =30°C (NOTE 2)	I <sub>(AV)</sub>					4.0			Amps
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>					200.0			Amps
Maximum instantaneous forward voltage drop per leg at 4.0A	V <sub>F</sub>					1.0			Volts
Maximum DC reverse current at rated DC blocking voltage per leg	I <sub>R</sub>					5.0			μA
						1.0			mA
Typical thermal resistance per leg (NOTE 2) (NOTE 1)	R <sub>θJA</sub> R <sub>θJL</sub>					19.0			°C/W
						4.0			
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>					-50 to +150		°C	

**NOTES:**

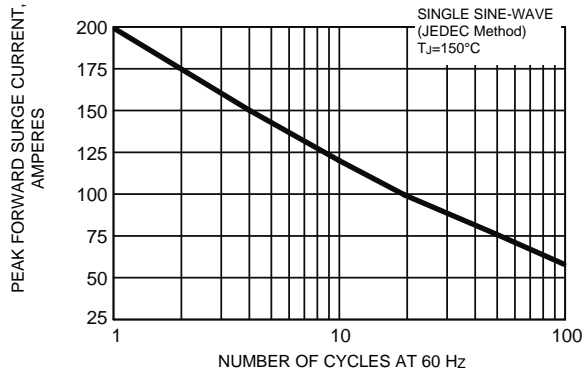
- (1) Units mounted on a 2.0 x 1.6 x 0.3" thick (5 x 4 x 0.8cm.) Al. Plate
- (2) Units mounted on P.C.B. with 0.5 x 0.5" (12 x 12mm) copper pads and 0.375" (9.5mm) lead length
- (3) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw



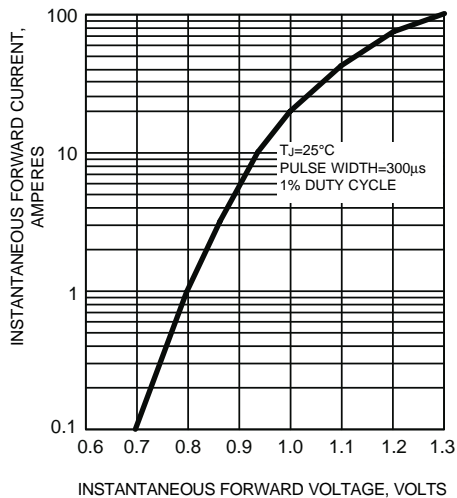
**FIG. 1 - DERATING CURVE OUTPUT RECTIFIED CURRENT**



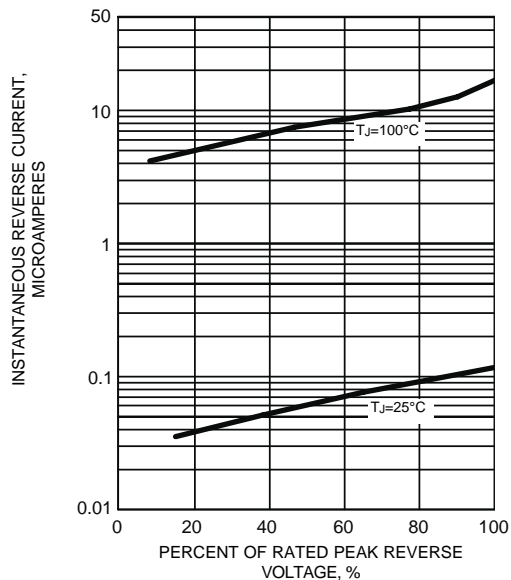
**FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG**



**FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG**



**FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG**



**FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG**

