

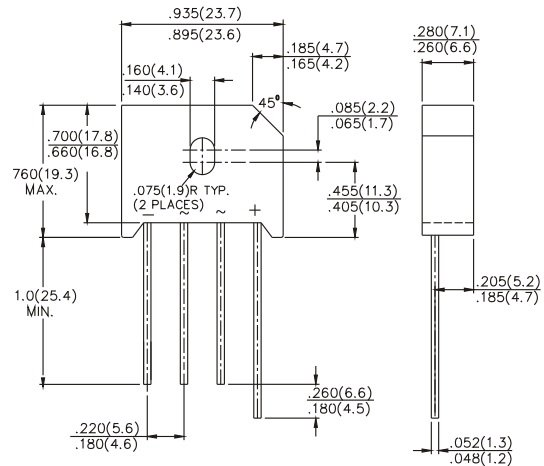
VOLTAGE RANGE: 50 - 1000V
CURRENT: 4.0 A

Features

- Ideal for printed circuit boards
- High surge current capability
- High case dielectric strength of 1500 V_{RMS}

Mechanical Data

- Case : Molded plastic
- Polarity : Polarity symbols marked on case
- Mounting position : Any
- Weight : 8.0 grams



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

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

Characteristic	Symbol	KBU 4A	KBU 4B	KBU 4D	KBU 4G	KBU 4J	KBU 4K	KBU 4M	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified output current at $T_C=100^\circ\text{C}$ (NOTE 1) $T_A=30^\circ\text{C}$ (NOTE 2)	I _(AV)					4.0			Amps
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}					200.0			Amps
Maximum instantaneous forward voltage drop per leg at 4.0A	V _F					1.0			Volts
Maximum DC reverse current at rated DC blocking voltage per leg	I _R					5.0			μA
						1.0			mA
Typical thermal resistance per leg (NOTE 2)	R _{θJA}					19.0			°C/W
(NOTE 1)	R _{θJL}					4.0			
Operating junction and storage temperature range	T _J , T _{STG}					-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

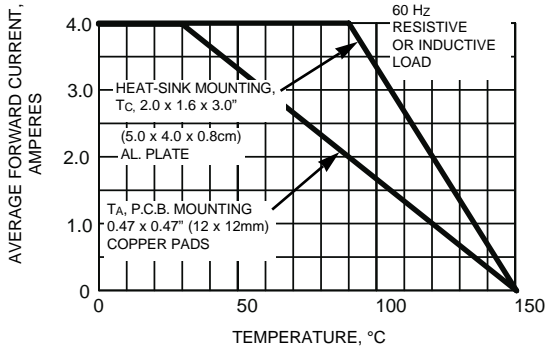


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

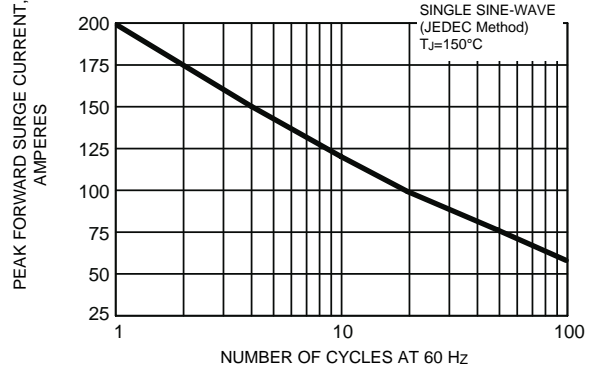


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

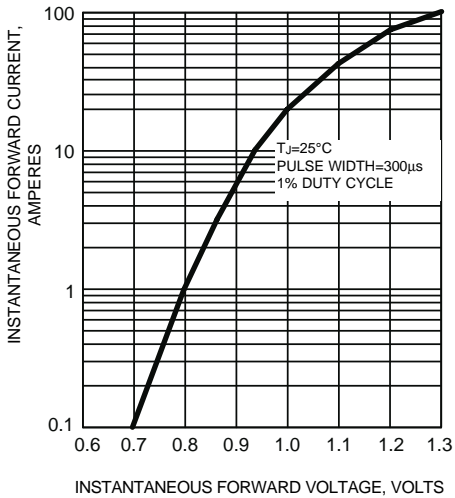


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

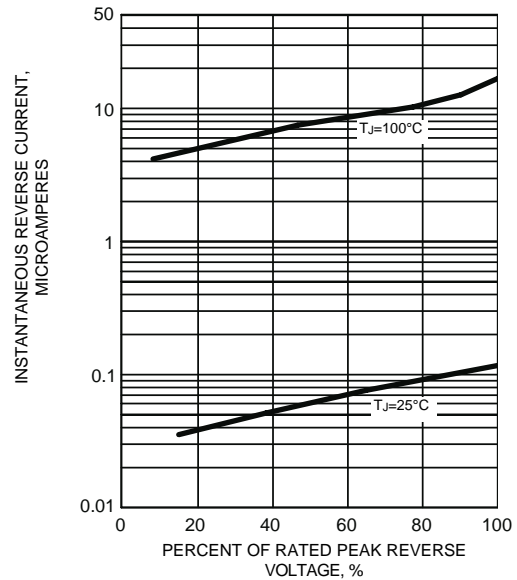


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG

