

KBU4A ~ KBU4M

Silicon Bridge Rectifiers

PRV : 50 - 1000 Volts

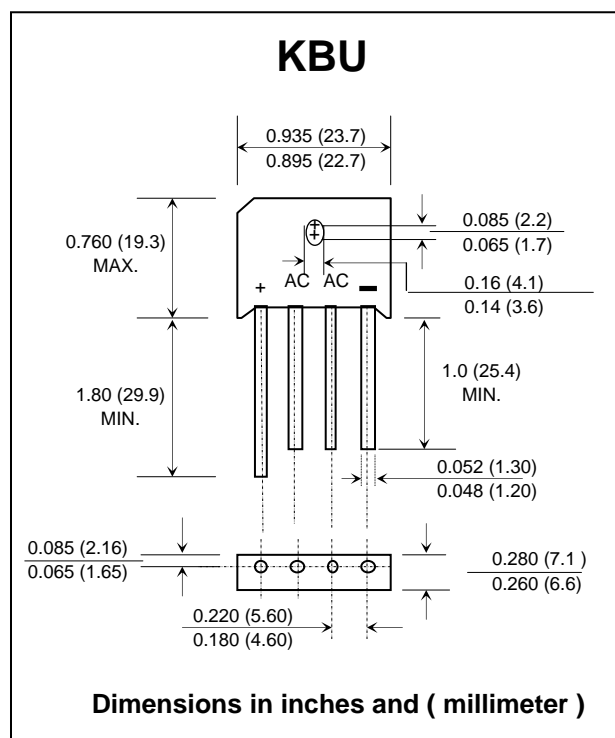
I_o : 4.0 Amperes

FEATURES :

- * Ideal for printed circuit boards
- * High surge current capability
- * High case dielectric strength of 1500 V_{RMS}
- * Pb / RoHS Free

MECHANICAL DATA :

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	KBU	KBU	KBU	KBU	KBU	KBU	KBU	UNIT
		4A	4B	4D	4G	4J	4K	4M	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current at Ta = 30 °C (Note 1)	I _{F(AV)}	4.0							A
Peak Forward Surge Current, Single sine-wave Superimposed on rated load	I _{FSM}	200							A
Maximum Instantaneous Forward Voltage per leg at I _F = 4 A	V _F	1.0							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	I _R	5.0 (Ta = 25°C)							µA
	I _{R(H)}	1.0 (Ta = 125°C)							mA
Thermal Resistance, Junction to Ambient, per leg (Note1)	R _{θJA}	19							°C/W
Thermal Resistance, Junction to Lead, per leg (Note2)	R _{θJL}	4.0							°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	- 50 to + 150							°C

Notes :

- (1) Units mounted on P.C.B. with 0.5 x 0.5" (12 x 12 mm) copper pads and 0.375" (9.5 mm) lead length.
- (2) Units mounted on a 2.0 x 1.6 x 0.3" thick (5 x 4 x 0.8 cm) Al.Plate

RATING AND CHARACTERISTIC CURVES (KBU4A - KBU4M)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

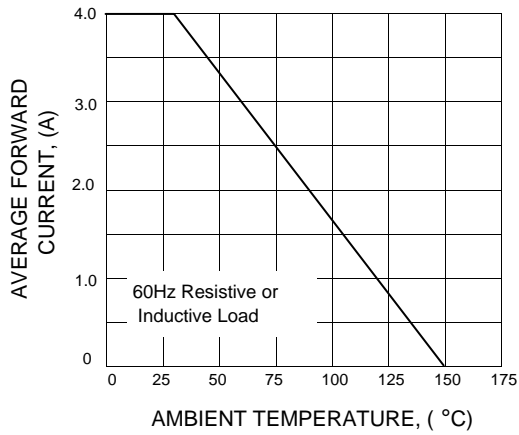


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

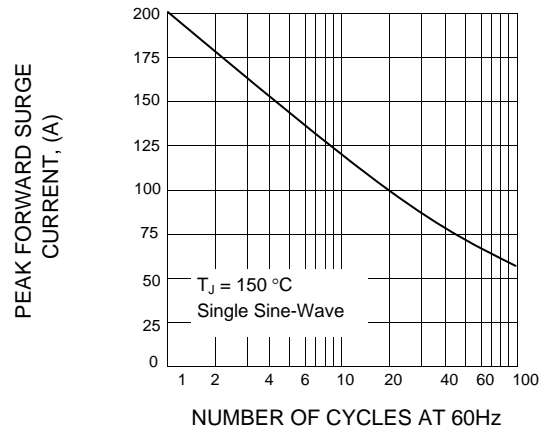


FIG.3 - TYPICAL FORWARD CHARACTERISTICS PER LEG

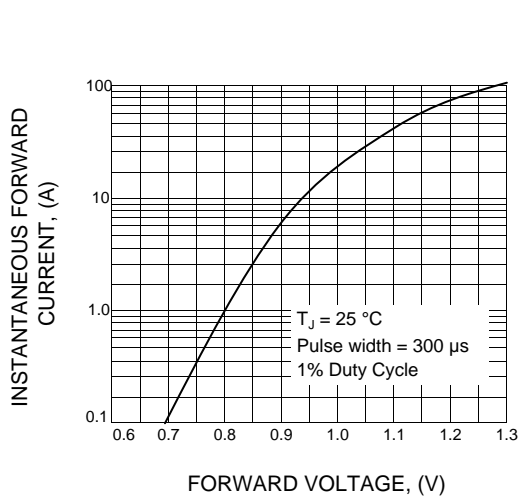


FIG.4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

