



WEET Technology Company Limited

Single Phase Bridge Rectifiers

KBU8005 THUR KBU810

VOLTAGE RANGE
CURRENT

50 to 1000 Volts
8.0 Ampere

GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURES

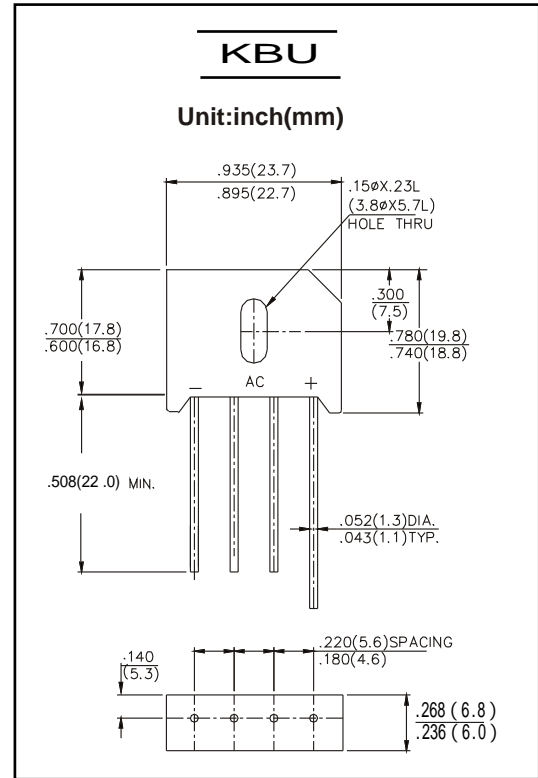
- High forward surge current capability
- Ideal for printed circuit board
- High temperature soldering guaranteed:
260°C/10 second, 0.375" (9.5mm) lead length
at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

- Case: Transfer molded plastic
- Terminal: Lead solderable per MIL - STD - 202E method 208C
- Polarity: Polarity symbols marked on case.
- Mounting: Thru hole for #6 screw, 5 in,- lbs. Torqute Max.
- Weight: 0.27 ounce, 7.59 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load.
- For capacitive load derate current by 20%



	SYMBOLS	KBU8005	KBU801	KBU802	KBU804	KBU806	KBU808	KBU810	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 $T = 100^\circ C$	$I_{(AV)}$	8.0							Amps	
Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method)	I_{FSM}	175							Amps	
Rating for Fusing ($t < 8.3ms$)	I^2t	93							A^2s	
Maximum Instantaneous Forward Voltage Drop per bridge element at 4.0A	V_F	1.0							Volts	
Maximum DC Reverse Current at rated DC blocking voltage per element	I_R	$T_A = 25^\circ C$	5.0							μA
		$T_A = 100^\circ C$	1.0							mA
Typical Junction Capacitance (Note 1)	C_j	105							pF	
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	4.7							$^\circ C/W$	
Operating Temperature Range	T_J	(-65 to +150)							$^\circ C$	
Storage Temperature Range	T_{STG}	(-65 to +150)								

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
2. Unit mounted on 2.6" X 1.4" X 0.06" thick (6.3 X 3.5 X 0.15cm) Al. plate.

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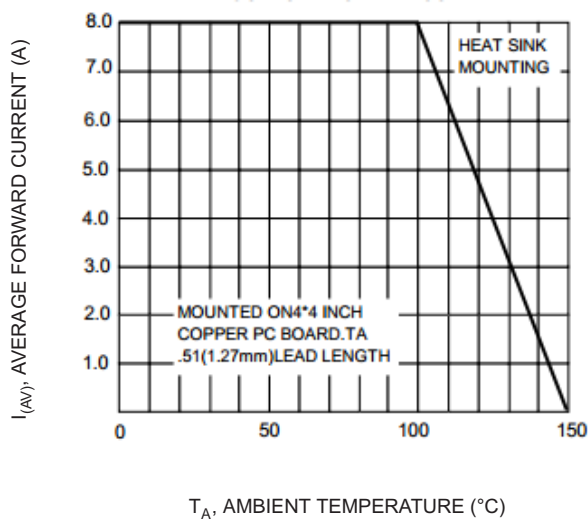


Fig. 1 - DERATING CURVE OUTPUT RECTIFIED CURRENT

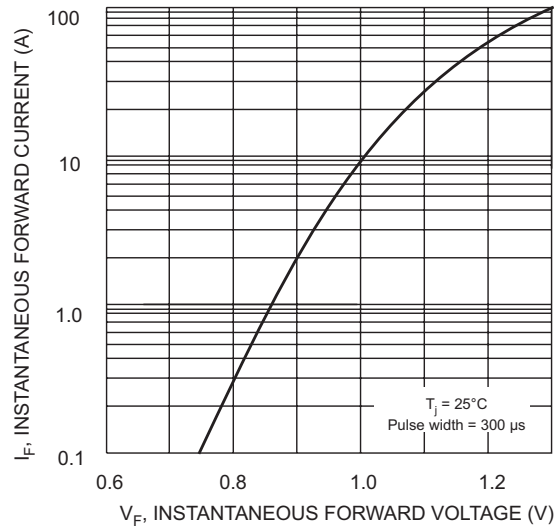


Fig. 2 - TYPICAL FORWARD CHARACTERISTICS

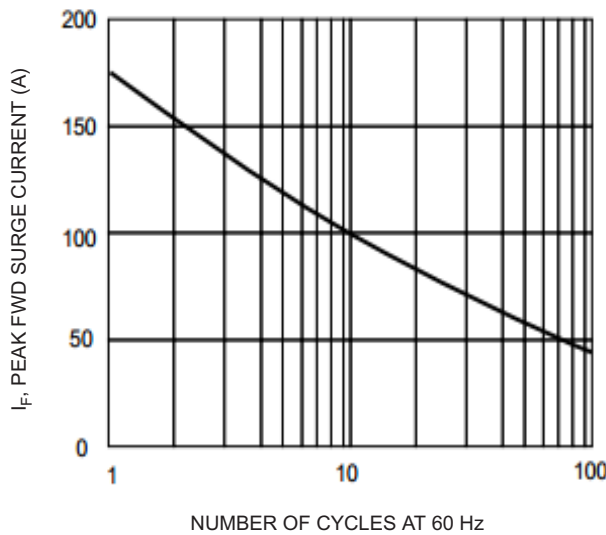


Fig. 3 Max Non-Repetitive Forward Surge Current

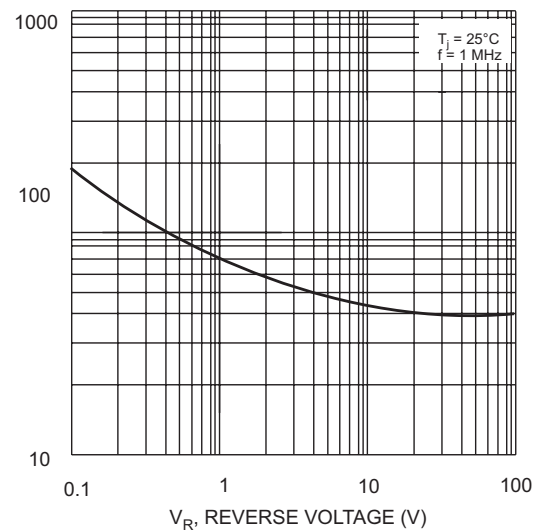


Fig. 4 Typ Junction Capacitance per element

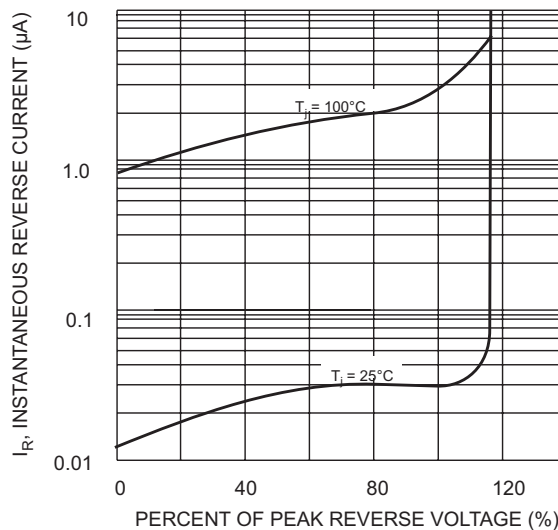


Fig. 5 Typical Reverse Characteristics

Note: Specifications are subject to change without notice. For more detail and update, please visit our website.