

KBU4005 THRU KBU410

CURRENT 4.0 Amperes
VOLTAGE 50 to 1000 Volts

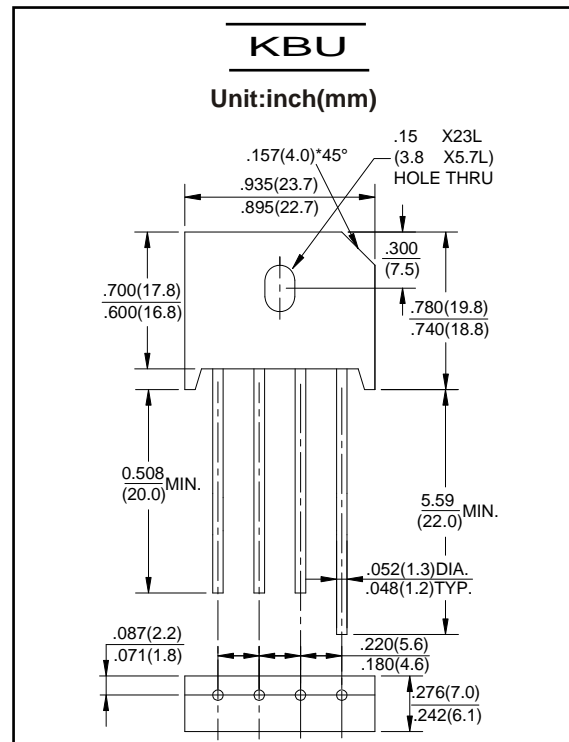
GLASS PASSIVATED BRIDGE RECTIFIERS

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.
- Electrically isolated base-1500 Volts

MECHANICAL DATA

- Case: Transfer molded plastic
- Terminal: Lead solderable per MIL - STD - 202E method 208C
- Mounting: Thru hole for #6 screw, 5 in.- lbs. Torque 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	KBU4005	KBU401	KBU402	KBU404	KBU406	KBU408	KBU410	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 $TC=100^{\circ}C$	$I_{(AV)}$	4.0							Amps	
Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method)	I_{FSM}	200							Amps	
Maximum Instantaneous Forward Voltage Drop per bridge element at 4.0A	V_F	0.98							Volts	
Maximum DC Reverse Current at rated DC blocking voltage per element	I_R	$T_A = 25^{\circ}C$	3.0							μA
		$T_A = 100^{\circ}C$	1.0							mA
Typical Junction Capacitance (Note 1)	C_j	105							pF	
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	3.0							$^{\circ}C/W$	
Operating Temperature Range	T_J	(-55 to +150)							$^{\circ}C$	
Storage Temperature Range	T_{STG}	(-55 to +150)							$^{\circ}C$	

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.



WEET Technology Company Limited

Single Phase Bridge Rectifiers

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FIG.1-DERATING CURVE FOR
 OUTPUT RECTIFIED CURRENT

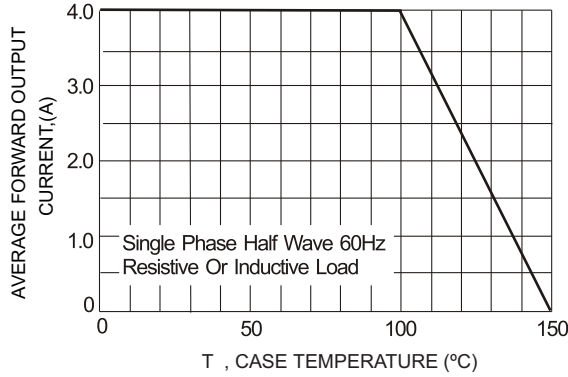


FIG.2-MAXIMUM NON-REPETITIVE PEAK
 FORWARD SURGE CURRENT PER ELEMENT

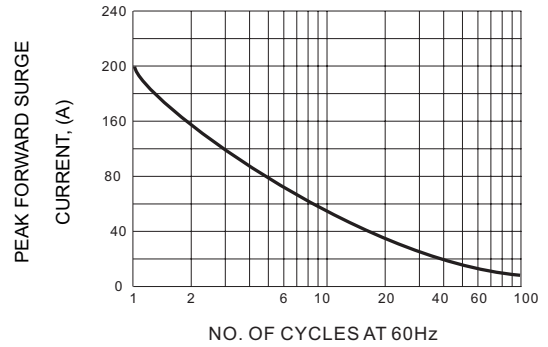


FIG.3-TYPICAL FORWARD CHARACTERISTICS
 PER BRIDGE ELEMENT

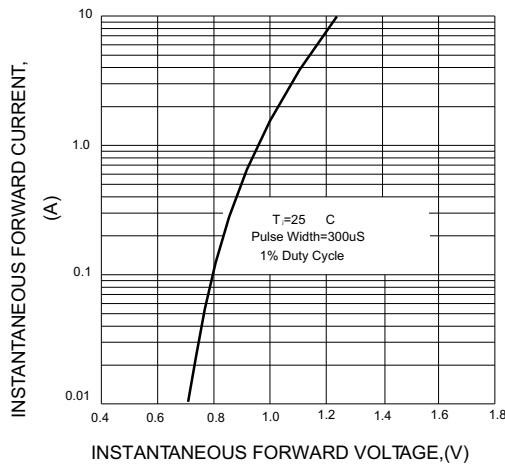


FIG.4-TYPICAL REVERSE CHARACTERISTICS
 PER BRIDGE ELEMENT

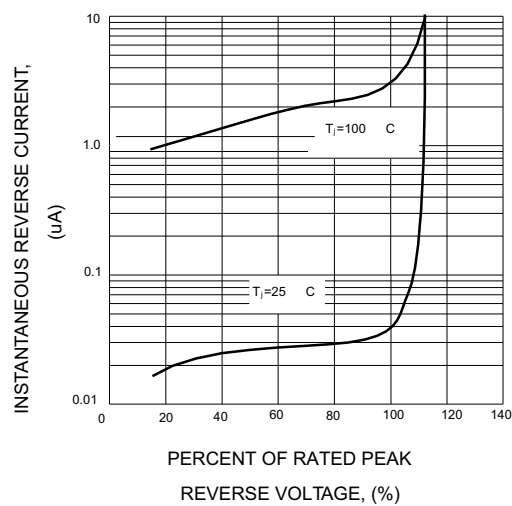
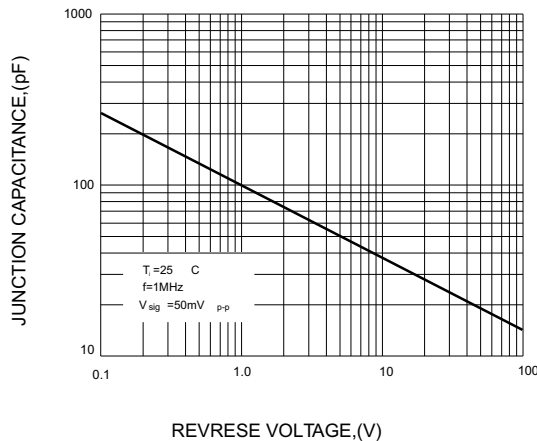


FIG.5-TYPICAL JUNCTION CAPACITANCE
 PER BRIDGE ELEMENT



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