

Kingtronics®

KBL4005 THRU KBL410

SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS
VOLTAGE RANGE 50 to 1000 Volts FORWARD CURRENT 4.0 Ampere

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.

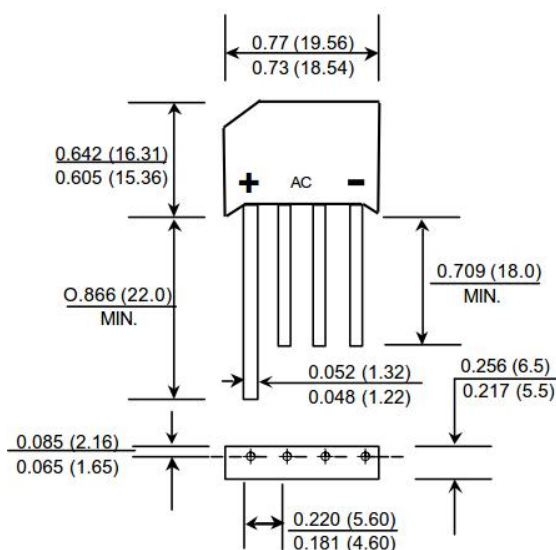
MECHANICAL DATA

Case: Transfer molded plastic.
Terminal: Lead solderable per MIL - STD - 202E
method 208°C.
Mounting position: Any.
Weight: 0.22 ounce, 6.21 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%

KBL



Dimensions in inches and (millimeters)

PARAMETER	SYMBOL	KBL4005	KBL401	KBL402	KBL404	KBL406	KBL408	KBL410	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Input 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 Output Current at 40°C T_A (Note 1)	$I_{(AV)}$	4.0							A
Peak Forward Surge Current 8.3ms single half sine-wave Super Imposed on Rated Load	I_{FSM}	150							A
Maximum forward Voltage Drop Per Element at 4.0A Peak	V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking voltage	I_R	5.0							μA
Maximum Reverse Current at Rated DC Blocking voltage and 150°C T_A	I_R	1.0							mA
Operating Temperature Range T_J	T_J	-65 to +125							°C
Storage Temperature Range T_A	T_{STG}	-65 to +150							°C

1- Mounting conditions, 0.5" lead length maximum.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1-DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

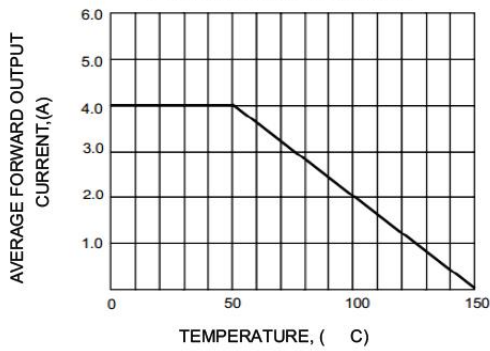


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT PER ELEMENT

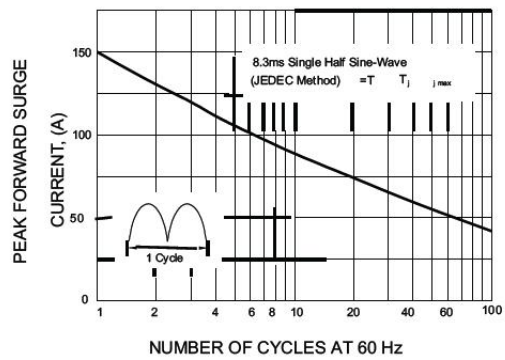


FIG.3-TYPICAL FORWARD CHARACTERISTICS
PER BRIDGE ELEMENT

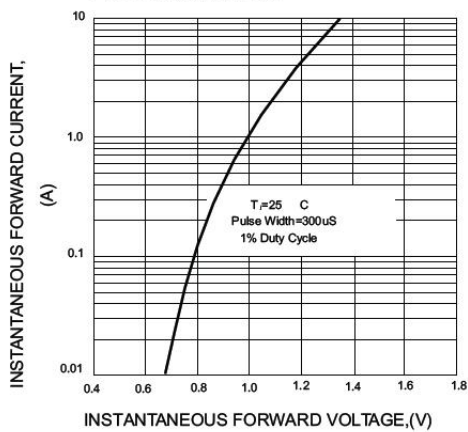


FIG.4-TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT

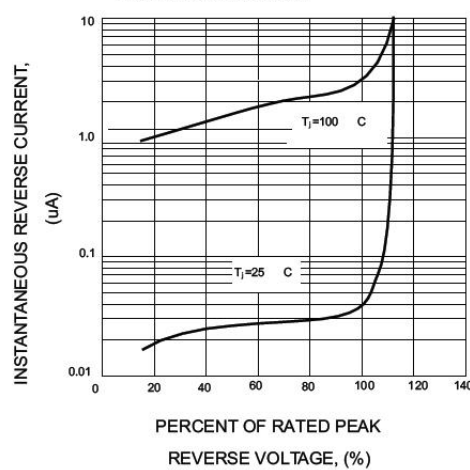
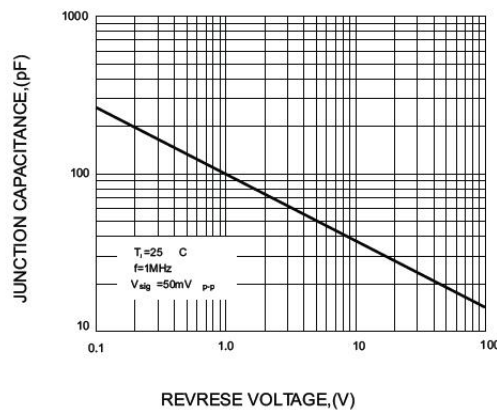


FIG.5-TYPICAL JUNCTION CAPACITANCE
PER BRIDGE ELEMENT



Note: Specifications are subject to change without notice.