

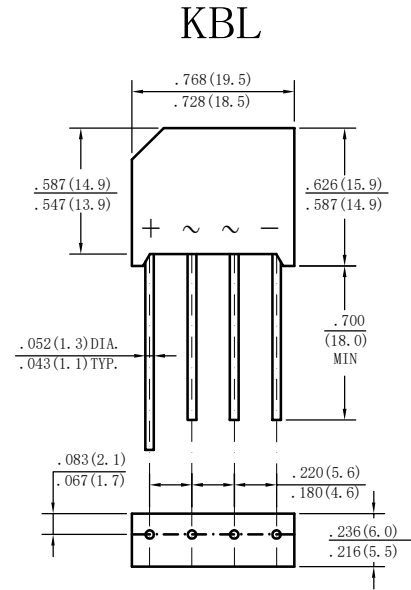
VOLTAGE RANGE - 50 to 1000 V
CURRENT - 4 A

FEATURES

- Glass Passivated Chip Junction
- This series is UL recognized under component index ,file number E127707
- 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: Molded plastic, KBL
- Terminal: Lead solderable per MIL-STD-202E method 208C
- Mounting Postition: Any
- Weight: 0.22ounce, 6.21gram



Dimensions in inches and (millimeters)

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	KBL4005	KBL401	KBL402	KBL404	KBL406	KBL408	KBL410	UNITS
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	$T_C=50^{\circ}C$ (Note 2)	4.0							Amps
	$T_A=50^{\circ}C$ (Note 3)								
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150							Amps
Rating for Fusing (t<8.3ms)	I^2t	166							A ² s
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	$T_A=25^{\circ}C$	5							μAmps
	$T_A=100^{\circ}C$	1.0							mAmps
Typical Junction Capacitance (Note 1)	C_J	105							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	20							°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							°C

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
2. Unit mounted on 3.0"x3.0"x0.11" thick (7.5x7.5x0.3 cm) Al. plate.
3. P.C. Board mount with 0.5"x0.5" (12x12cm) copper pads 0.375" (9.5mm) lead length

RATING AND CHARACTERISTIC CURVES

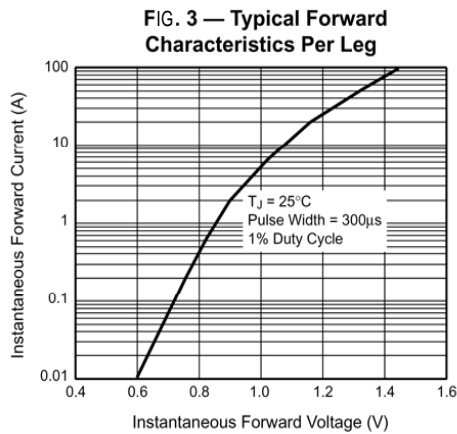
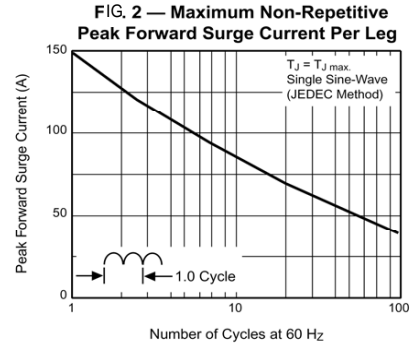
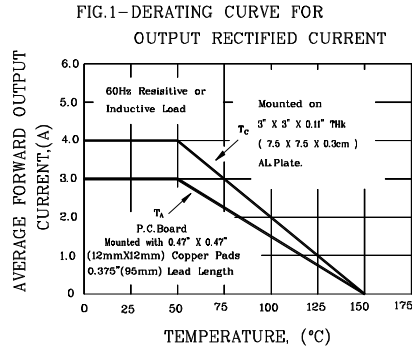


FIG. 4—TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

