

KBL005 THRU KBL10

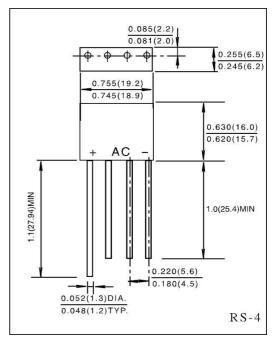
VOLTAGE RANGE CURRENT 50 to 1000 Volts 4.0 Ampere

FEATURES

- Low cost
- This series is UL recognized under component index, file number E127707
- High forward surge current capability
- Ideal for printed circult 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
- 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%

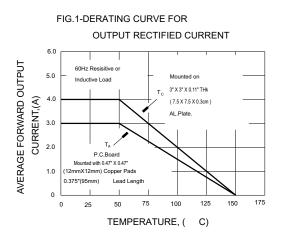
		SYMBOLS	KBL005	KBL01	KBL02	KBL04	KBL06	KBL08	KBL10	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward	$T_C = 50^{\circ}C$	Т	4.0							Amps
Rectified Output Current, at	$T_A = 50^{\circ}C$	I _(AV)	3.0							
Peak Forward Surge Current		I _{FSM}	200							Amps
8.3ms single half sine - wave superimposed on										
rated load (JEDEC method)										
Rating for Fusing (t<8.3ms)		$I^2 t$	166							A^2s
Maximum Instantaneous Forward Voltage Drop		$V_{\rm F}$	1.0							Volts
per bridge element at 4.0A										
Maximum DC Reverse Current at rate $T_A = 25^{\circ}C$		I _R	10							μA
DC blocking voltage per element $T_A = 100^{\circ}C$			1.0							mA
Typical Junction Capacitance(Note 1)		Cj	105							pF
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	20							°C/W
Operating Temperature Range		T _J	(-65 to +150)							°C
Storage Temperature Range		T _{STG}	(-65 to +150)							

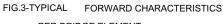
NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

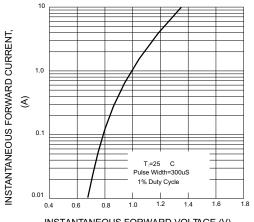
2. Unit mounted on 3.0" X 3.0" X 0.11" thick (7.5 X 7.5 X 0.3cm) Al. plate.

3. P.C. Broad mounted with 0.5" X 0.5" (12 X 12mm) copper pads. 0.375" (9.5mm) lead length.



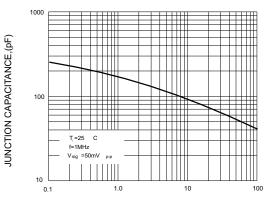






INSTANTANEOUS FORWARD VOLTAGE,(V)

FIG.5-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT



REVRESE VOLTAGE,(V)

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

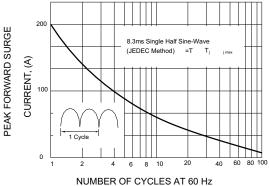


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

