



BRIDGE RECTIFIERS

FEATURES

- · UL Recognized File # E469616
- · Reliable low cost construction utilizing molded plastic technique
- · Ideal for printed circuit board
- · Low forward voltage drop
- · Low reverse leakage current
- · High surge current capability
- · Glass passivated chip junctions

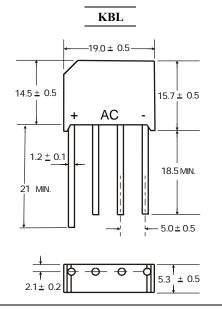
MECHANICAL DATA

Case: Molded plastic, KBL

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202,

method 208 guaranteed Mounting position: Any Weight: 0.2ounce, 5.6gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified. Single phase, half wave, 60H_Z, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	KBL4005	KBL401	KBL402	KBL404	KBL406	KBL408	KBL410	Units
Maximum Recurrent 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 Current	I _(AV)			•	4.0			Amp	
.375"(9.5mm) Lead Length at T_A =50	-(AV)	7.0							2 Kimp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I_{FSM}	I _{FSM} 80							Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage	$\mathbf{V_F}$	1.1							Volts
at 4.0A DC and 25	' F								
Maximum Reverse Current at T _A =25	1	10.0							uAmp
at Rated DC Blocking Voltage T _A =100	I_R	500							
Typical Junction Capacitance (Note 1)	C _J	40							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	19							/W
Typical Thermal Resistance (Note 3)	$R_{\theta JL}$	2.4							/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal resistance from junction to ambient with units mounted on 3.0 x 3.0 x 0.11" thick (7.5 x 7.5 x 0.3cm) Al. plate
- 3- Thermal resistance from junction to lead with units mounted on P.C.B. at 0.375" (9.5mm) lead length and 0.5 x 0.5" (12 x 12mm) copper pads



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Characteristic Curves (T_A=25 ℃ unless otherwise noted)

