

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

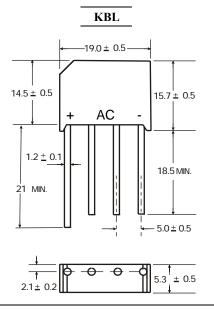
MECHANICAL DATA

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, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	KBL6005	KBL601	KBL602	KBL604	KBL606	KBL608	KBL610	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 .5"(12.7mm) Lead Length at T _A =50	I _(AV)				6.0				Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I_{FSM}	I _{FSM} 150							Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage at 6.0A DC and 25	$V_{\rm F}$	1.1							Volts
Maximum Reverse Current at T _A =25		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)

FLG.1-MAXIMUM FORWARD SUNRGE CURRENT

