

KBL40X SERIES

SINGLE-PHASE SILICON BRIDGE RECTIFIER

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KBL4005 THRU KBL410

SINGLE-PHASE SILICON BRIDGE RECTIFIER



REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 4.0 AMPERE

FEATURES

- · 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

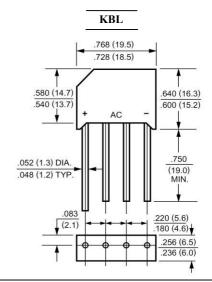
MECHANICAL DATA

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°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 Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current		4.0							Amp
.375"(9.5mm) Lead Length at T $_{A}\!\!=\!\!50^{\circ}\!$	I(AV)								
Peak Forward Surge Current,									
8.3ms single half-sine-wave	Ifsm	IFSM 200							Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage	$V_{\rm F}$	1.1							Volts
at 4.0A DC and 25 $^{\circ}$ C	V F								
Maximum Reverse Current at T _A =25°C	IR	10.0 500							uAmp
at Rated DC Blocking Voltage TA=100°C	IK								
Typical Junction Capacitance (Note 1)	Cı	40							pF
Typical Thermal Resistance (Note 2)	RθJA	19							°C/W
Typical Thermal Resistance (Note 3)	Røjl				2.4				°C/W
Operating and Storage Temperature Range	TJ, Tstg		•	-	55 to +125	;			$^{\circ}$

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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RATINGS AND CHARACTERISTIC CURVES

