

## KBL601 THRU KBL607

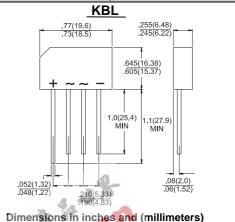
Single Phase 6.0 AMPS. Silicon Bridge Rectifiers



Voltage Range 50 to 1000 Volts Current 6.0 Amperes

## **Features**

- ♦ UL Recognized File # E-96005
- Ideal for printed circuit board
- ♦ Reliable low cost construction
- High surge current capability
- → High temperature soldering guaranteed: 260°C / 10 seconds / 0.375" ( 9.5mm ) lead length at 5 lbs., ( 2.3 kg ) tension
- Leads solderable per MIL-STD-202, Method 208



## **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Tor supusitive read, derate surront by 2070									
Type Number	Symbol	KBL 601	KBL 602	KBL 603	KBL 604	KBL 605	KBL 606	KBL 607	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	>
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current $@T_A = 50^{\circ}C$ (Note 1)	I <sub>(AV)</sub>	6.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	200							Α
Maximum Instantaneous Forward Voltage @ 6.0A	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current @ T <sub>A</sub> =25° at Rated DC Blocking Voltage @ T <sub>A</sub> =100° C	I <sub>R</sub>	10 500							uA uA
Typical thermal Resistance (Note 1) (Note 2)	$R\hspace{.01in} heta_{JA} \ R\hspace{.01in} heta_{JL}$	19 2.4							<b>.C\M</b>
Operating Temperature Range T <sub>J</sub>	ΤJ	-55 to +125							ပ္
Storage Temperature Range T <sub>STG</sub>	T <sub>STG</sub>	-55 to +150							${\mathbb C}$

Note: 1. Thermal Resistance from Junction to Ambient Al-Plate.

2. Thermal resistance from Junction to Lead with units Mounted on P.C.B. at 0.375" (9.5mm) Lead Length and 0.6" x 0.6" (16mm x 16mm) Copper Pads.



