

KBL601 THRU KBL607

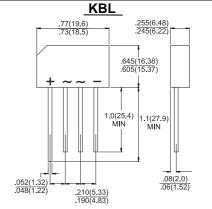
Single Phase 6.0 AMPS. Silicon Bridge Rectifiers



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



Dimensions in inches and (millimeters)

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%

I of capacitive load, defate current by 2078									
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_{RMS}	35	70	140	280	420	560	700	>
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	>
Maximum Average Forward Rectified Current $@T_A = 50^{\circ}C$ (Note 1)	I _(AV)	6.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200							Α
Maximum Instantaneous Forward Voltage @ 6.0A	V _F	1.1							V
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =100°C	I _R	10 500							uA uA
Typical thermal Resistance (Note 1) (Note 2)	$R\hspace{.01in} heta_{JA} \ R\hspace{.01in} heta_{JL}$	19 2.4							.C\M
Operating Temperature Range T _J	TJ	-55 to +125							${\mathbb C}$
Storage Temperature Range T _{STG}	T _{STG}	-55 to +150							ပ္

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.



RATINGS AND CHARACTERISTIC CURVES (KBL601 THRU KBL607)

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

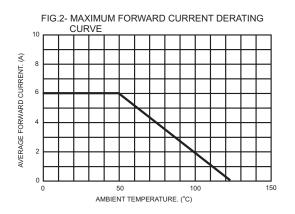


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

