
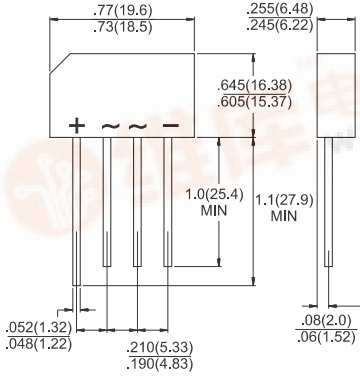
	<h2 style="margin: 0;">KBL601 THRU KBL607</h2> <h3 style="margin: 0;">Single Phase 6.0 AMPS. Silicon Bridge Rectifiers</h3>								
				Voltage Range 50 to 1000 Volts Current 6.0 Amperes					
<h4>Features</h4> <ul style="list-style-type: none"> ✧ UL Recognized File # E-96005 ✧ Ideal for printed circuit 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 				<div style="text-align: center;">  <p>Dimensions in inches and (millimeters)</p> </div>					
<h4>Maximum Ratings and Electrical Characteristics</h4> <p>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%</p>									
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	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_A = 50^\circ\text{C}$ (Note 1)	$I_{(AV)}$	6.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	200							A
Maximum Instantaneous Forward Voltage @ 6.0A	V_F	1.1							V
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$	I_R	10 500							uA uA
Typical thermal Resistance (Note 1) (Note 2)	$R\theta_{JA}$ $R\theta_{JL}$	19 2.4							°C/W
Operating Temperature Range T_J	T_J	-55 to +125							°C
Storage Temperature Range T_{STG}	T_{STG}	-55 to +150							°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.





RATINGS AND CHARACTERISTIC CURVES (KBL601 THRU KBL607)

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

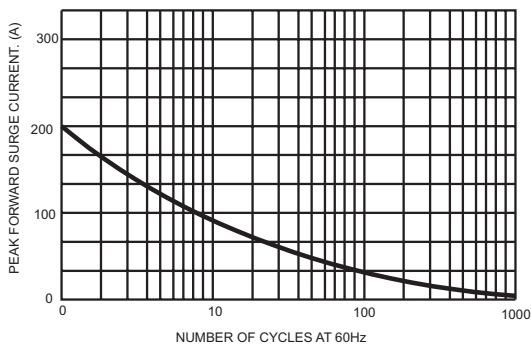


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

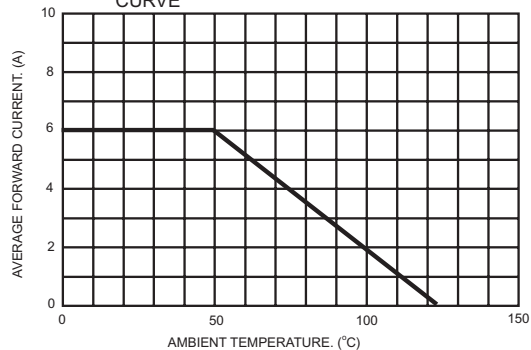


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

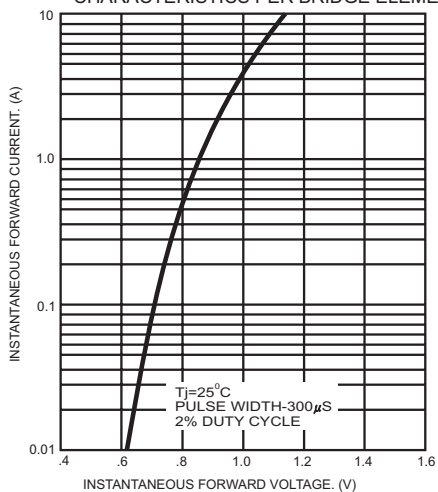


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

