

KBL601 THRU KBL607

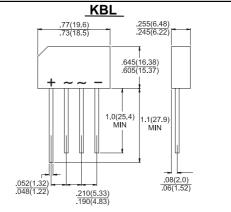
Single Phase 6.0 AMPS. Silicon Bridge Rectifiers



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%

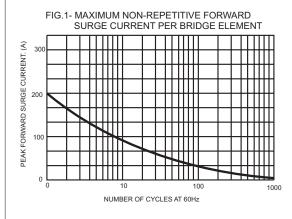
Type Number Symbol KBL KBL KBL KBL KBL KBL KBL Units								
Symbol								Units
	601	602	603	604	605	606	607	
V_{RRM}	50	100	200	400	600	800	1000	V
V _{RMS}	35	70	140	280	420	560	700	V
V_{DC}	50	100	200	400	600	800	1000	V
I _(AV)	6.0							Α
I _{FSM}	200							Α
V _F	1.1							>
I _R	10 500							uA uA
$R\theta_{JA} \ R\theta_{JL}$	19 2.4							℃ /W
TJ	-55 to +125						Ç	
T _{STG}	-55 to +150						Ç	
	$\begin{tabular}{c c} Symbol \\ \hline V_{RRM} \\ \hline V_{RMS} \\ \hline V_{DC} \\ \hline I_{(AV)} \\ \hline \\ I_{FSM} \\ \hline V_F \\ \hline I_R \\ R \theta_{JL} \\ \hline T_J \\ \hline \end{tabular}$		Symbol KBL 601 KBL 602 V _{RRM} 50 100 V _{RMS} 35 70 V _{DC} 50 100 I _(AV) V _F I _R R θ _{JA} R θ _{JL} T _J	Symbol KBL 601 KBL 603 KBL 603 KBL 603 VBL 603 VBL 603 VBL 603 VBL 603 VBL 700 200 VBL 700 VBL 700 140 VBL 700 VBL 70	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c 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)



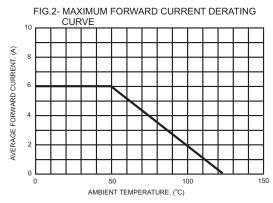


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

