

KBL401G THRU KBL407G

Single Phase 4.0 AMPS. Glass Passivated Bridge Rectifiers

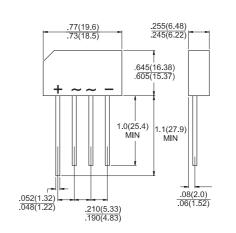


Voltage Range 50 to 1000 Volts Current 4.0 Amperes

KBL

Features

- ♦ UL Recognized File # E-96005
- Glass passivated junction
- 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



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%

To capacitive load, derate current by 2070								
Symbol	KBL 401G	KBL 402G	KBL 403G	KBL 404G	KBL 405G	KBL 406G	KBL 407G	Units
V_{RRM}	50	100	200	400	600	800	1000	>
V_{RMS}	35	70	140	280	420	560	700	V
V_{DC}	50	100	200	400	600	800	1000	V
I _(AV)	4.0							Α
I _{FSM}	150							Α
V_{F}	1.1							V
I_R	10							uA
	500						uA	
RθJA	10						.C\M	
RθJL				2.4				
TJ	-55 to +150							$^{\circ}$
T _{STG}	-55 to +150						Ç	
	$\begin{tabular}{c} Symbol \\ \hline V_{RRM} \\ \hline V_{RMS} \\ \hline V_{DC} \\ \hline I_{(AV)} \\ \hline I_{FSM} \\ \hline V_{F} \\ \hline I_{R} \\ \hline R\theta JA \\ R\theta JL \\ \hline T_J \\ \hline \end{tabular}$	$\begin{array}{c c} \textbf{Symbol} & \textbf{KBL} \\ \textbf{401G} \\ \textbf{V}_{RRM} & 50 \\ \textbf{V}_{RMS} & 35 \\ \textbf{V}_{DC} & 50 \\ \textbf{I}_{(AV)} & \\ \\ \textbf{I}_{FSM} & \\ \textbf{V}_{F} & \\ \textbf{I}_{R} & \\ \\ \textbf{R}\theta JA \\ \textbf{R}\theta JL & \\ \textbf{T}_{J} & \\ \end{array}$	Symbol KBL 401G KBL 402G V _{RRM} 50 100 V _{RMS} 35 70 V _{DC} 50 100 I _(AV)	Symbol KBL 401G KBL 402G KBL 403G V _{RRM} 50 100 200 V _{RMS} 35 70 140 V _{DC} 50 100 200 I _(AV) 40 40 40 I _(AV) 40 40 40 40 V _F 40 40 <td< td=""><td>Symbol KBL 401G KBL 402G KBL 403G KBL 404G A04 <th< td=""><td>Symbol KBL 401G KBL 402G KBL 403G KBL 404G KBL 405G KBL 405G KBL 405G KBL 405G KBL 405G KBL 405G KBL 404G KBL 405G A200 A200</td><td>Symbol KBL 401G KBL 402G KBL 403G 404G 404G 405G 406G 406G 406G V_{RRM} 50 100 200 400 600 800 V_{RMS} 35 70 140 280 420 560 V_{DC} 50 100 200 400 600 800 I_(AV) 4.0 4.0 500 800 V_F 150 150 150 150 I_R 10 500 500 19 10 1</td><td>Symbol KBL 401G KBL 402G KBL 403G KBL 404G KBL 404G KBL 405G 406G 407G KBL 407G KBL 406G KBL 407G KBL 406G KBL 407G KBL 406G KBL 407G KBL 406G KBL 407G A07 A07</td></th<></td></td<>	Symbol KBL 401G KBL 402G KBL 403G KBL 404G A04 A04 <th< td=""><td>Symbol KBL 401G KBL 402G KBL 403G KBL 404G KBL 405G KBL 405G KBL 405G KBL 405G KBL 405G KBL 405G KBL 404G KBL 405G A200 A200</td><td>Symbol KBL 401G KBL 402G KBL 403G 404G 404G 405G 406G 406G 406G V_{RRM} 50 100 200 400 600 800 V_{RMS} 35 70 140 280 420 560 V_{DC} 50 100 200 400 600 800 I_(AV) 4.0 4.0 500 800 V_F 150 150 150 150 I_R 10 500 500 19 10 1</td><td>Symbol KBL 401G KBL 402G KBL 403G KBL 404G KBL 404G KBL 405G 406G 407G KBL 407G KBL 406G KBL 407G KBL 406G KBL 407G KBL 406G KBL 407G KBL 406G KBL 407G A07 A07</td></th<>	Symbol KBL 401G KBL 402G KBL 403G KBL 404G KBL 405G KBL 405G KBL 405G KBL 405G KBL 405G KBL 405G KBL 404G KBL 405G A200 A200	Symbol KBL 401G KBL 402G KBL 403G 404G 404G 405G 406G 406G 406G V _{RRM} 50 100 200 400 600 800 V _{RMS} 35 70 140 280 420 560 V _{DC} 50 100 200 400 600 800 I _(AV) 4.0 4.0 500 800 V _F 150 150 150 150 I _R 10 500 500 19 10 1	Symbol KBL 401G KBL 402G KBL 403G KBL 404G KBL 404G KBL 405G 406G 407G KBL 407G KBL 406G KBL 407G KBL 406G KBL 407G KBL 406G KBL 407G KBL 406G KBL 407G A07 A07

Note: Thermal Resistance from Junction to Ambient and from Junction to Lead Mountedon P.C.B. With 0.47 x 0.47" (12 x 12mm) Copper Pads.

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RATINGS AND CHARACTERISTIC CURVES (KBL401G THRU KBL407G)

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

150

150

100

NUMBER OF CYCLES AT 60Hz

