TSC 9b

KBL401G THRU KBL407G

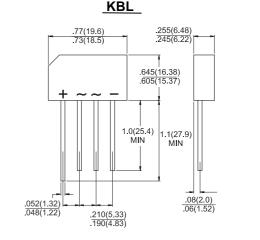
Single Phase 4.0 AMPS. Glass Passivated Bridge Rectifiers



Voltage Range 50 to 1000 Volts Current 4.0 Amperes

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%

Type Number	Symbol	KBL 401G	KBL 402G	KBL 403G	KBL 404G	KBL 405G	KBL 406G	KBL 407G	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°C	I _(AV)	4.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150							Α
Maximum Instantaneous Forward Voltage @ 4.0A	V _F	1.1							V
Maximum DC Reverse Current @ T _A =25°C	I _R	10						uA	
at Rated DC Blocking Voltage @ T _A =125℃		500						uA	
Typical Thermal Resistance (Note)	$R\theta_{JA}$				19				% W
	$R heta_{JL}$				2.4				
Operating Temperature Range	TJ	-55 to +150							${\mathbb C}$
Storage Temperature Range	T _{STG}	-55 to +150							Ç

Note: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. With 0.6" x 0.6" (16mm x 16mm) Copper Pads.



RATINGS AND CHARACTERISTIC CURVES (KBL401G THRU KBL407G)

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

150

100

NUMBER OF CYCLES AT 60Hz

