

KBL401 THRU KBL407

Single Phase 4.0 AMPS. Silicon Bridge Rectifiers



Voltage Range 50 to 1000 Volts Current 4.0 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
- 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 401	KBL 402	KBL 403	KBL 404	KBL 405	KBL 406	KBL 407	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 $@T_A = 50^{\circ}C$	I _(AV)	4.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200							Α
Maximum Instantaneous Forward Voltage @ 4.0A	V _F	1.1							V
Maximum DC Reverse Current @ T _A =25°C	1-	10							uA
at Rated DC Blocking Voltage @ T _A =100°C	I _R				500				uA
Typical thermal Resistance (Note 1)	$R\theta_{JA}$	19							C/W
	$R heta_{JL}$				2.4				3
Operating Temperature Range	TJ	-55 to +125							Ç
Storage Temperature Range	T _{STG}	-55 to +150							C

Note: 1. Thermal Resistance from Junction to Ambient and Junction to Lead with units Mounted on P.C.B. at 0.375" (9.5mm) Lead Length and 0.6" x 0.6" (16 x 16mm) Copper Pads.



