

KBL400 Thru KBL410

Reverse Voltage: 50 - 1000 Volts

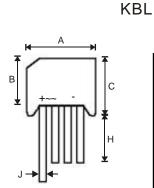
Forward Current: 4.0 Amp

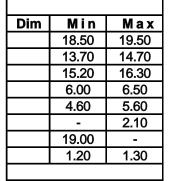
Features

- Diffused Junction
- Low Forward Voltage Drop
- High Reliability
- High Current Capability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

Mechanical Data

- Terminals: Plated Leads Solderable per MIL STD-202, Method 208
- Weight: 5.6 grams (approx.)
- Mounting Position: Any





moonamoar bata	
- Case: Molded Plastic	k) E
- Terminals: Plated Leads Solderable per MIL	- T (

Maximum Ratings and Electrical Characterics Rating at 25°C unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

CHARACTERISTICS	Symbol	KBL 400	KBL 401	KBL 402	KBL 404	KBL 406	KBL 408	KBL 410	UNIT
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_R								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note1) @ T _A = 75°C	Ι _ο	4							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150						А	
Forward Voltage (per element) @I _F = 2.0A	V_{FM}	1.1							V
Peak Reverse Current $@T_C = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_C = 100^{\circ}C$	I _R	10 1.0							uA mA
I ² t Rating for Fusing (t < 8.3ms) (Note1)	l ² t	166							A ² s
Typical Thermal Resistance (Note2)	R _{JC}	19							K/W
Operating and Storage Temperature Range	T_j , T_{STG}	-65 to +125							°C

Note: 1. Non-repetitive for t > 1ms and < 8.3ms.

2. Thermal resistance junction to ambient mounted on PC board with 13.0 x 13.0 x 0.03mm thick land areas.



Rating and Characteristic Curves (KBL400 thru 410)

FIG.1- MAXIMUM NON-REPETITIVE PEAK Fwd SURGE CURRENT

