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

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



KBL

KBL								
Dim	Min	Max						
Α	18.50	19.50						
В	13.70	14.70						
С	15.20	16.30						
D	6.00	6.50						
E	4.60	5.60						
G	-	2.10						
Η	19.00	-						
J	1.20	1.30						
All Dimensions in mm								

terice m. cl 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									
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note1) @ $T_A = 75^{\circ}C$		4							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		150							A
Forward Voltage (per element) @I _F = 2.0A		1.1							V
Peak Reverse Current $@T_c = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_c = 100^{\circ}C$		10 1.0							uA mA
I ² t Rating for Fusing (t < 8.3ms) (Note1)		166							A ² s
Typical Thermal Resistance (Note2)		19							K/W
Operating and Storage Temperature Range		-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