

KBL6005 THRU KBL607

CURRENT 6.0 Amperes VOLTAGE 50 to 1000 Volts

Features

- · High case dielectric Strength of 1500V
- · Low Forward Voltage Drop, High Current Capability
- · Surge Overload Rating to 250A Peak
- · Ideal for Printed Circuit Board Application
- · Plastic Material UL Flammability Classification 94V-0

KBL Min Dim Max Α 18.50 19.50 В 15.40 16.40 C 19.00 6.20 D Е 4.60 5.60 G 1.50 2.00

Н 1.30 Typical

All Dimensions in mm

Mechanical Data

· Case: Molded Plastic

· Terminals : Plated Leads, Solderable per MIL-STD-202, Method 208

· Polarity: Symbols Marked on Case

· Approx. Weight: 5.6 grams · Marking : Type Number

Maximum Ratings And Electrical Characteristics

(Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

		Symbols	KBL 6005	KBL 601	KBL 602	KBL 604	KBL 605	KBL 606	KBL 607	Units
Peak Repetitive Reverse voltage Working Peak Reverse voltage DC Blocking voltage		VRMM VRWM VR	50	100	200	400	600	800	1000	Volts
RMS Reverse voltage		VRMS	35	70	140	280	420	560	700	Volts
Average Rectified Output Current @ Tc=75 °C		lo	6.0							Amps
Non-Repetitive Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)		lfsm	150							Amps
Forward Voltage per element	@ IF=3.0 A	VFM	1.1						Volts	
Peak Reverse Current at Rated DC Blocking Voltage	@ Tc=25 ℃	lo.	10							μ A
	@ Tc=100 ℃	IR	1.0							mA
I ² t Rating for Fusing (t<8.3ms) (Note 2)		l ² t	166							A ² s
Typical Thermal Resistance, Junction to Case (Note 1)		R⊖ja	19							°C/W
Operating and Storage Temperature Range		Tj Tstg	-40 to +150							°C

- (1) Thermal Resistance from junction to case per element mounted on PC board with 13 x 13 x 0.03mm land areas.
- (2) Non-repetitive for t > 1ms and < 8.3ms.



RATING AND CHARACTERISTIC CURVES KBL6005 THRU KBL607

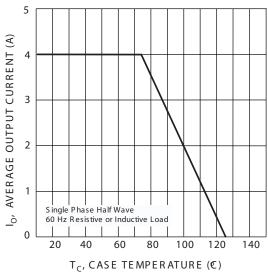


Fig. 1 Forward Current Derating Curve

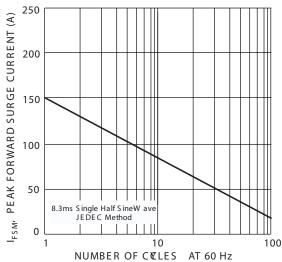


Fig. 3 Max NonRepetitive Peak Fwd Surge Current

