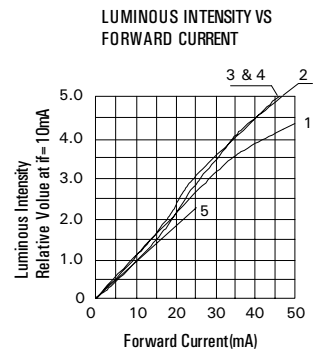
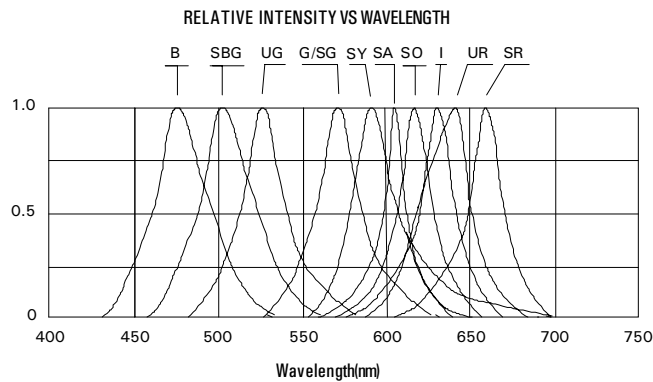
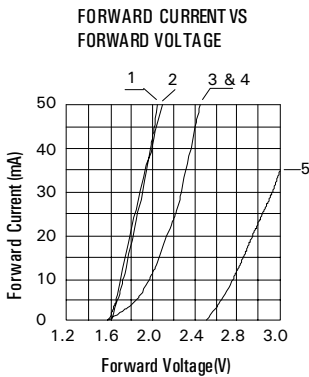


Face Length	MM	20.0
Face Width	MM	6.8
Height	MM	6.0
Pin Spacing	MM	2.5
No. of pins	Pins	6

Note : All Dimensions are in mm Tolerance ± 0.2 mm

PART NO.															
	KLLB720 I	KLLB720 SR	KLLB720 G	KLLB720 SG	KLLB720 SY	KLLB720 SA	KLLB720 UR	KLLB720 SO	KLLB720 B/UB	KLLB720 BG	KLLB720 UG	KLLB720 W			
OPERATING CHARACTERISTICS AT 25°C <small>(Bigger Display may have more than one LED chip per segment)</small>	UNITS	SYMBOL	I _{RED} I	SUPER RED SR	GREEN G	SUPER GREEN SG	SUPER YELLOW SY	SUPER AMBER SA	ULTRA RED UR	SUPER ORANGE SO	BLUE B/UB	BLUE GREEN BG	ULTRA GREEN UG	WHITE W	
Semiconductor Composition			AlGaAs		GaP/AlInGaP		AlInGaP			SiC / GaInN					
Forward Voltage - Typical @ 10mA	V	V _F	2.10	1.90	2.20	2.20	2.10	2.10	1.90	1.90	3.50	3.50	3.50	3.50	
Forward Voltage - Maximum @ 20 mA	V	V _{FM}	2.40	2.10	2.60	2.40	2.40	2.40	2.10	2.40	4.50	4.50	4.50	4.50	
Reverse Current @ V _R = 5V	μA	I _R	100	100	100	100	100	100	100	100	100	100	100	100	
Peak Emission Wavelength	nm	λ _p	630	660	568	568	590	610	645	620	470	502	525	---	
Emission Wavelength Half Width	nm	Δλ	35	20	30	15	15	15	20	20	25	30	35	---	
Luminous Intensity per Segment	μcd	I _v	3500	6000	4000	6000	7000	7500	13000	13000	6000	7000	17000	---	
ABSOLUTE MAXIMUM RATINGS AT 25°C															
Reverse Voltage	V	V _R	5	5	5	5	5	5	5	5	5	5	5	5	
Forward Current (avg)	mA	I _F	20	20	20	20	20	20	20	20	20	20	20	20	
Peak Forward Current (T<1μs)	mA	I _{FS}	80	80	80	80	80	80	80	80	80	80	80	80	
Operating / Storage Temperature Range	-10° C to + 85° C														
Lead Soldering Temperature	< 260° C for 5 Seconds														
Series Resistor to be used per segment : 300 Ohms @ 5V Supply (OR) 50 to 100 Ohms @ 3V Supply															

ELECTRICAL CHARACTERISTIC CURVES



1. AlGaAs : I, SR

2. GaP : G

3 & 4. AlInGaP : SG, SY, SA, UR, SO

5. GaInN : B, BG, UG, W

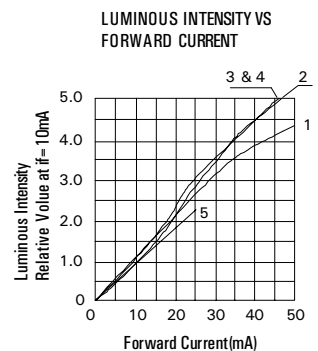
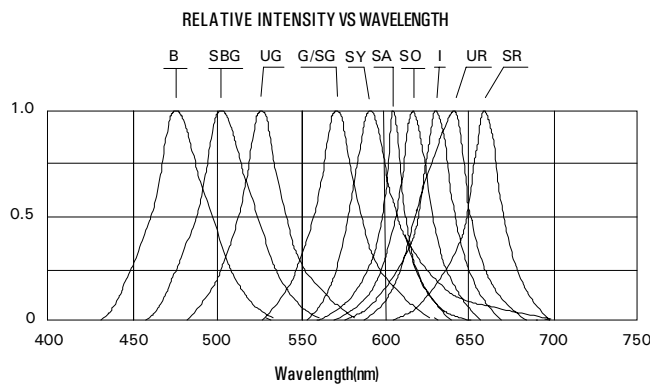
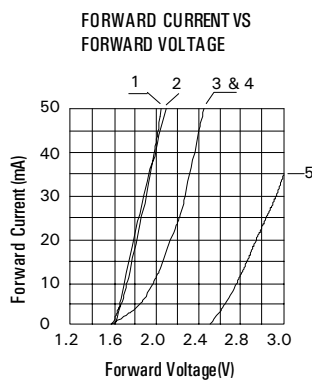
Face Length	MM	10.0
Face Width	MM	10.0
Height	MM	6.2
Pin Spacing	MM	2.5
Row Spacing	MM	7.6
No. of pins	Pins	8
Seg. V _f @10mA	Volts	2.0

(2.5 x 3 = 7.5)

Note : All Dimensions are in mm Tolerance ± 0.2 mm

PART NO.	KLLB1010X														
	I	SR	G	SG	SY	SA	UR	SO	B	SBG	UG	W			
OPERATING CHARACTERISTICS AT 25°C <small>(Bigger Display may have more than one LED chip per segment)</small>		UNITS	SYMBOL	IRED I	SUPER RED SR	GREEN G	SUPER GREEN SG	SUPER YELLOW SY	SUPER AMBER SA	ULTRA RED UR	SUPER ORANGE SO	BLUE B	BLUE GREEN SBG	ULTRA GREEN UG	WHITE W
Semiconductor Composition				AlGaAs		GaP/AlInGaP		AlInGaP			SiC / AlGaN				
Forward Voltage - Typical @ 10mA		V	V _F	2.10	1.90	2.20	2.20	2.10	2.10	1.90	1.90	3.50	3.50	3.50	3.50
Forward Voltage - Maximum @ 20 mA		V	V _{FM}	2.40	2.10	2.60	2.40	2.40	2.40	2.10	2.40	4.50	4.50	4.50	4.50
Reverse Current @ V _R = 5V		μA	I _R	100	100	100	100	100	100	100	100	100	100	100	100
Peak Emission Wavelength		nm	λ _p	630	660	568	568	590	610	645	620	470	502	525	---
Emission Wavelength Half Width		nm	Δ _λ	35	20	30	15	15	15	20	20	25	30	35	---
Luminous Intensity per Segment		μcd	I _v	3500	6000	4000	6000	7000	7500	13000	13000	6000	7000	17000	---
ABSOLUTE MAXIMUM RATINGS AT 25°C															
Reverse Voltage		V	V _R	5	5	5	5	5	5	5	5	5	5	5	5
Forward Current (avg)		mA	I _F	20	20	20	20	20	20	20	20	20	20	20	20
Peak Forward Current (T<1μs)		mA	I _{FS}	80	80	80	80	80	80	80	80	80	80	80	80
Operating / Storage Temperature Range		-40° C to + 85° C													
Lead Soldering Temperature		< 260° C for 5 Seconds													
		Series Resistor to be used per segment : 300 Ohms @ 5V Supply (OR) 50 to 100 Ohms @ 3V Supply													

ELECTRICAL CHARACTERISTIC CURVES



1. AlGaAs : I, SR 2. GaP : G 3 & 4. AlInGaP : SG, SY, SA, UR, SO 5. GaInN : B, SBG, UG, W