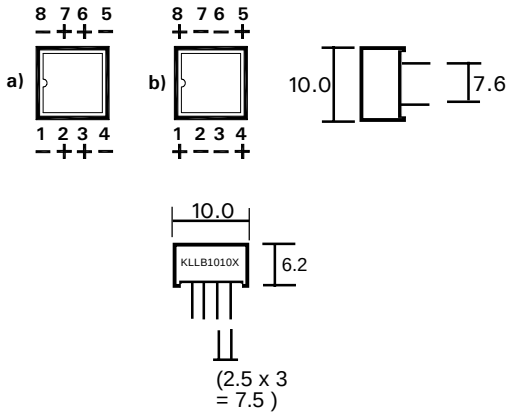
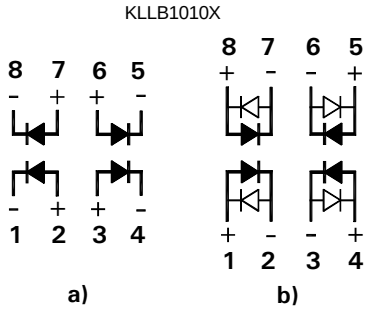
DATA SHEET 24 **LIGHT BAR 10X10 (4 LED)** **KLLB1010X**

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

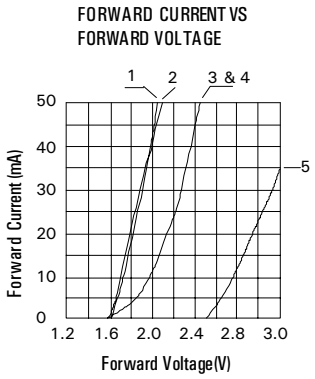


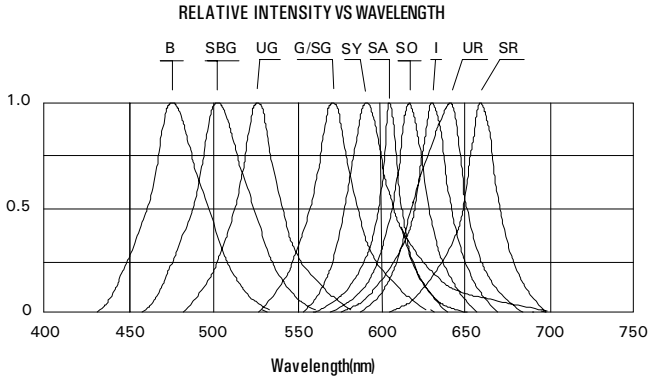


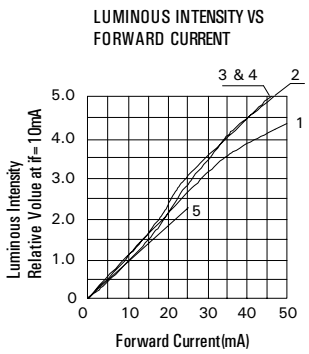
Note : All Dimensions are in mm Tolerance ± 0.2 mm

PART NO.			KLLB1010 I	KLLB1010 SR	KLLB1010 G	KLLB1010 SG	KLLB1010 SY	KLLB1010 SA	KLLB1010 UR	KLLB1010 SO	KLLB1010 B/UB	KLLB1010 BG	KLLB1010 UG	KLLB1010 W
OPERATING CHARACTERISTICS AT 25°C (Bigger Display may have more than one LED chip per segment)	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/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	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	---
ABSOULTE 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

KPC/KLLB1010X Rev. 00 1-1-04

kwality
ISO 9001-2000

KWALITY PHOTONICS PRIVATE LIMITED

29, EC Kushaiguda, Hyderabad-500 062, INDIA. Ph : 91-040-27123555, 27136252 Fax : 91-040-27124762
Email : kwality@kwalityindia.com www.kwalityindia.com