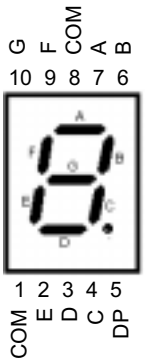
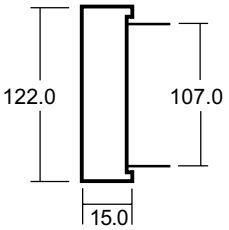
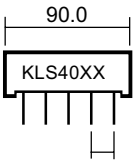
DATA SHEET 14 — 4.0" SEVEN SEGMENT DISPLAY — KLS40XX

Face Length	MM	122.0
Face Width	MM	90.0
Height	MM	15.0
Pin Spacing	MM	5.1
Row SPacing	MM	107.0
No.of pins	Pins	10

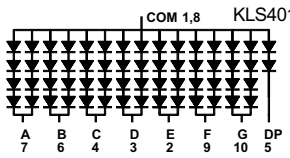


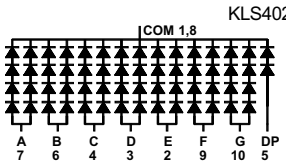




(5.1 x 4 = 20.4)

Common Anode





Common Cathode

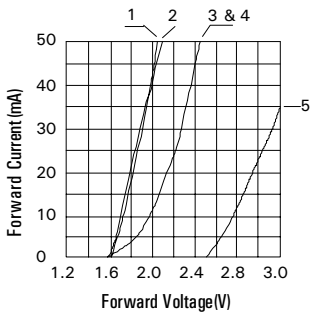
Note : All Dimensions are in mm

Tolerance ± 0.2 mm

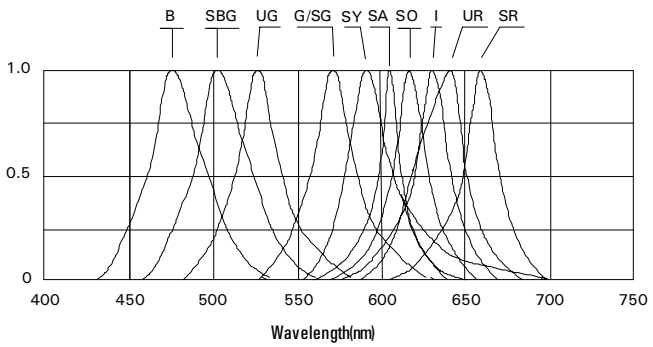
PART NO.				KLS401 I	KLS401 SR	KLS401 G	KLS401 SG	KLS401 SY	KLS401 SA	KLS401 UR	KLS401 SO	KLS401 B/UB	KLS401 BG	KLS401 UG	KLS401 W
	Common Anode	CA													
	Common Cathode	CC		KLS402 I	KLS402 SR	KLS402 G	KLS402 SG	KLS402 SY	KLS402 SA	KLS402 UR	KLS402 SO	KLS402 B/UB	KLS402 BG	KLS402 UG	KLS402 W
OPERATING 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

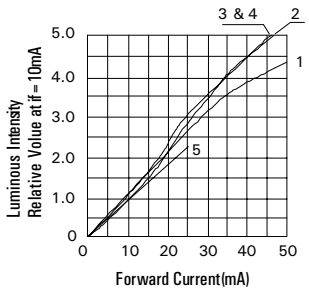
FORWARD CURRENT VS FORWARD VOLTAGE



RELATIVE INTENSITY VS WAVELENGTH



LUMINOUS INTENSITY VS FORWARD CURRENT



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

KPC/KLS40XX Rev. 00 1-1-04

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ISO 9001-2000

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