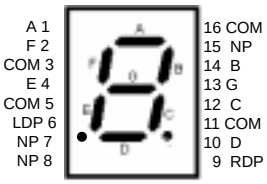
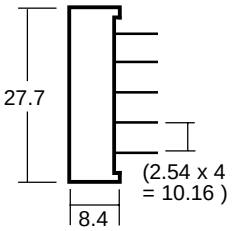
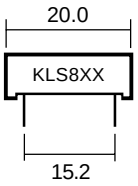
DATA SHEET 09 0.8" SEVEN SEGMENT DISPLAY KLS8XX

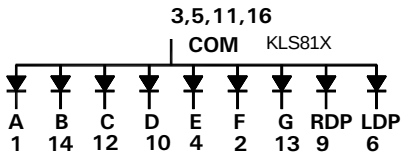
Face Length	MM	27.7
Face Width	MM	20.0
Height	MM	8.4
Pin Spacing	MM	2.5
Row SPacing	MM	15.2
No.of pins	Pins	16

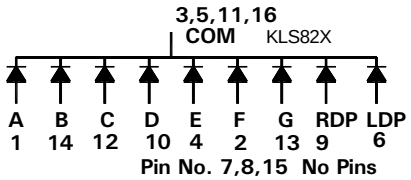






Common Anode



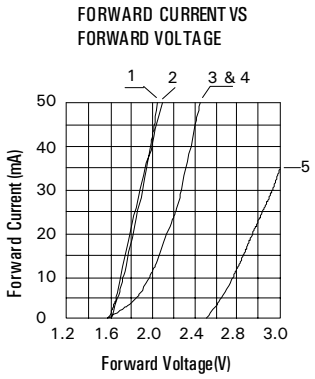


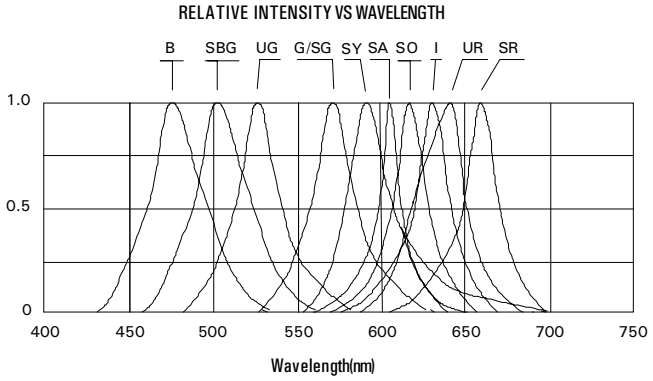
Common Cathode

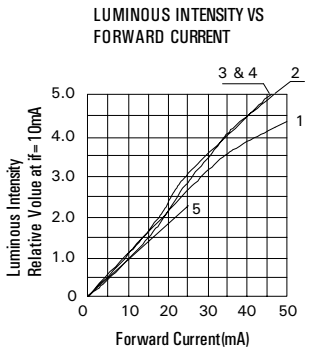
Note : All Dimensions are in mm Tolerance ± 0.2 mm

PART NO.				KLS81I	KLS81 SR	KLS81 G	KLS81 SG	KLS81 SY	KLS81 SA	KLS81 UR	KLS81 SO	KLS81 B/UB	KLS81 BG	KLS81 UG	KLS81 W
	Common Cathode	CC		KLS82I	KLS82 SR	KLS82 G	KLS82 SG	KLS82 SY	KLS82 SA	KLS82 UR	KLS82 SO	KLS82 B/UB	KLS82 BG	KLS82 UG	KLS82 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/KLS8XX Rev. 00 1-1-04

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