

DATA SHEET 43

0.5" ALPHA NUMERIC

KLA5XX

Face Length	MM	25.0
Face Width	MM	16.0
Height	MM	9.5
Pin Spacing	MM	2.5
Row SPacing	MM	12.7
No. of pins	Pins	18

Common Anode

COM, 11 KLA51X

A1 A2 B C D1 D2 E F G1 G2 H J K L M N DP
1 18 16 13 9 10 8 4 5 15 3 2 17 14 6 7 12

KLA52X

COM, 11

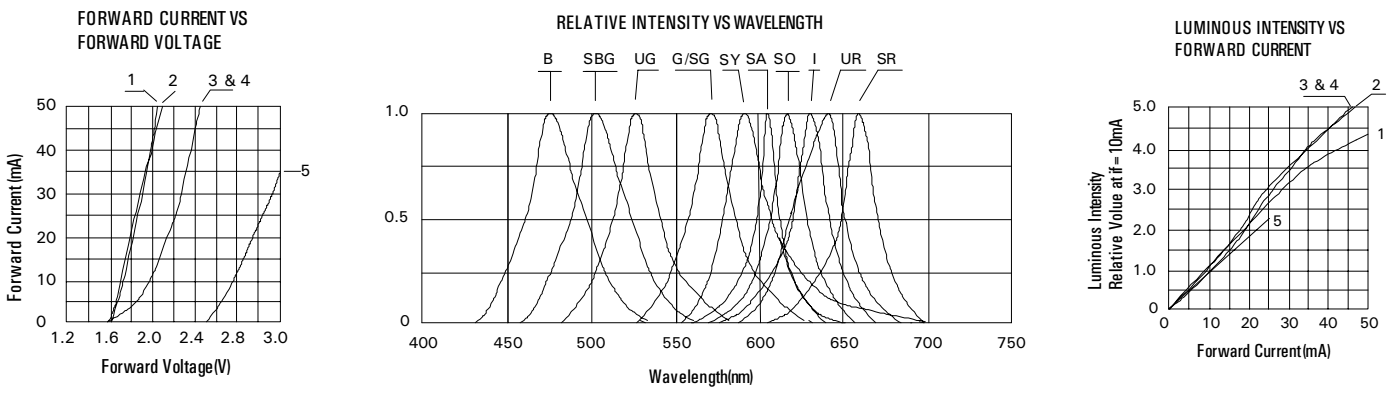
A1 A2 B C D1 D2 E F G1 G2 H J K L M N DP
1 18 16 13 9 10 8 4 5 15 3 2 17 14 6 7 12

Common Cathode

Note : All Dimensions are in mm Tolerance ± 0.2 mm

PART NO.	Common Anode	CA														
	Common Cathode	CC														
OPERATING CHARACTERISTICS AT 25°C <small>(Bigger Display may have more than one LED chip per segment)</small>			UNITS	SYMBOL	KLA51 I	KLA51 SR	KLA51 G	KLA51 SG	KLA51 SY	KLA51 SA	KLA51 UR	KLA51 SO	KLA51 B/UB	KLA51 BG	KLA51 UG	KLA51 W
					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	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	4.50	4.50
Reverse Current @ $V_R = 5V$	μA	I_R	100	100	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			V	V_R	5	5	5	5	5	5	5	5	5	5	5	5
Reverse Voltage	V	V_R	5	5	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	20	20
Peak Forward Current ($T < 1\mu s$)	mA	I_{FS}	80	80	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