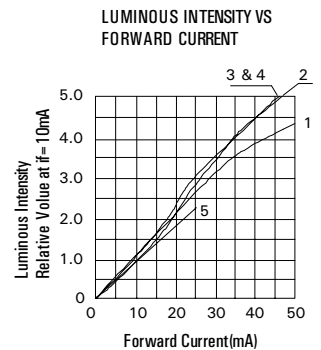
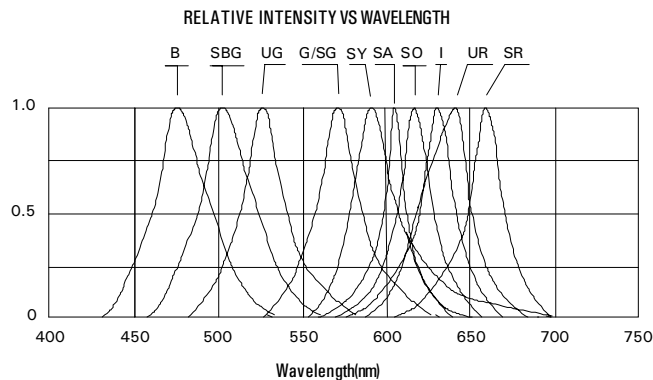
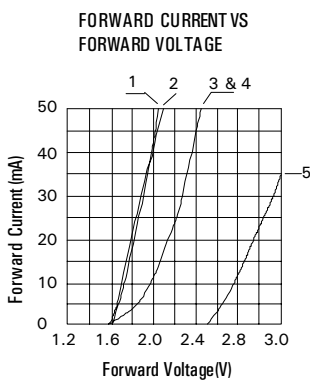


Face Length	MM	7.5
Face Width	MM	14.0
Height	MM	8.0
Pin Spacing	MM	2.5
Row Spacing	MM	5.1
No. of pins	Pins	4

Note : All Dimensions are in mm
Tolerance ± 0.2 mm

PART NO.			KLLB713 I	KLLB713 SR	KLLB713 G	KLLB713 SG	KLLB713 SY	KLLB713 SA	KLLB713 UR	KLLB713 SO	KLLB713 B/UB	KLLB713 BG	KLLB713 UG	KLLB713 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	$\Delta\lambda$	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 ($T < 1\mu s$)		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