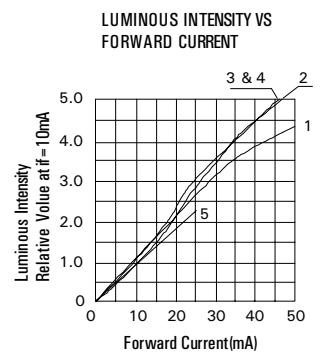
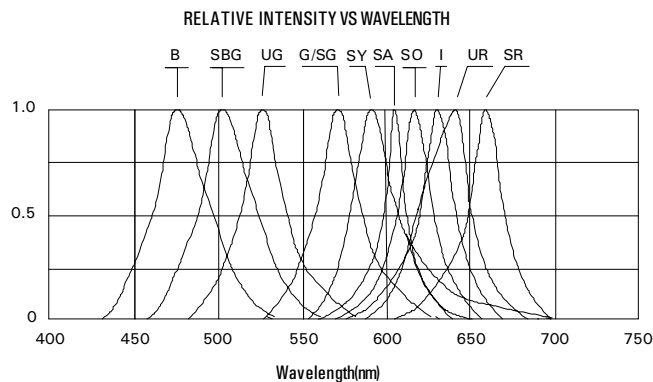
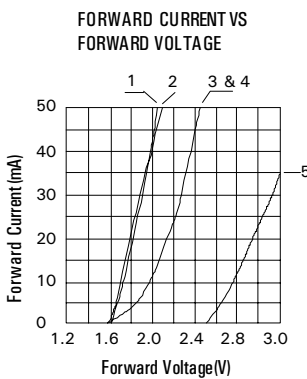


PART NO.	Column Anode	CA																
	Column Cathode	CC	KLP4057 I	KLP4057 SR	KLP4057 G	KLP4057 SG	KLP4057 SY	KLP4057 SA	KLP4057 UR	KLP4057 SO	KLP4057 B/UB	KLP4057 BG	KLP4057 UG	KLP4057 W				
OPERATING CHARACTERISTICS AT 25°C (Bigger Display may have more than one LED chip per segment)			UNITS	SYMBOL	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	Δλ	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<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