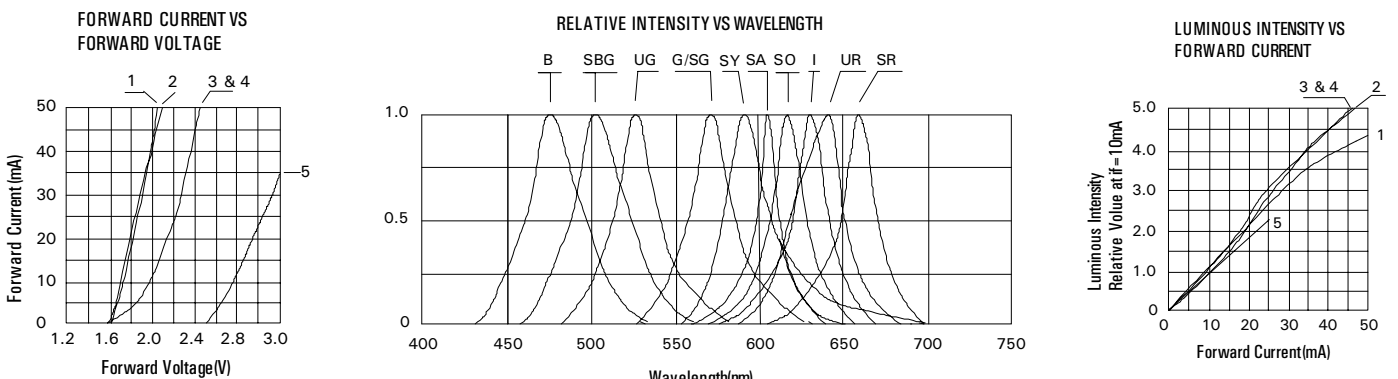


PART NO.	Column Anode	CA														
	Column Cathode	CC														
			KLP1057 I	KLP1057 SR	KLP1057 G	KLP1057 SG	KLP1057 SY	KLP1057 SA	KLP1057 UR	KLP1057 SO	KLP1057 B/UB	KLP1057 BG	KLP1057 UG	KLP1057 W		
			KLP1157 I	KLP1157 SR	KLP1157 G	KLP1157 SG	KLP1157 SY	KLP1157 SA	KLP1157 UR	KLP1157 SO	KLP1157 B/UB	KLP1157 BG	KLP1157 UG	KLP1157 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

KPC/KLP 1057X Rev. 00 1-1-04

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