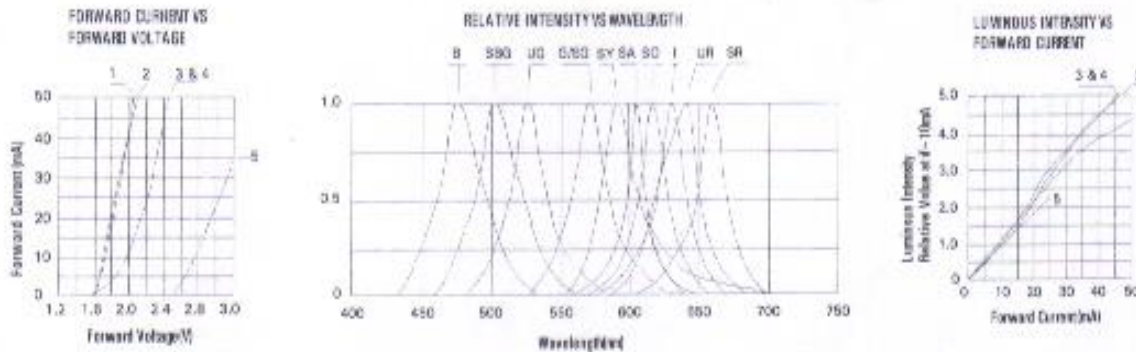


PART NO.	Common Anode	CA	KLDH41 I		KLDH41 SR		KLDH41 G		KLDH41 SG		KLDH41 SY		KLDH41 SA		KLDH41 UR		KLDH41 SO		KLDH41 B/B		KLDH41 B/G		KLDH41 UG		KLDH41 W	
	Common Cathode	CC	KLDH42 I		KLDH42 SR		KLDH42 G		KLDH42 SG		KLDH42 SY		KLDH42 SA		KLDH42 UR		KLDH42 SO		KLDH42 B/B		KLDH42 B/G		KLDH42 UG		KLDH42 W	
OPERATING CHARACTERISTICS AT 25°C (Bigger Display may have more than one LED chip per segment)			UNITS	SYMBOL	IRED	SUPER RED SR	GREEN G	SUPER GREEN SG	SUPER YELLOW SY	SUPER AMBER SA	ULTRA RED UR	SUPER ORANGE SO	BLUE B/B	BLUE GREEN B/G	ULTRA GREEN UG	WHITE W										
Semiconductor Composition					AlGaAs		GaP/AlnGaP		AlnGaP				SiC / GaInN													
Forward Voltage - Typical @ 10mA			V	V <sub>F</sub>	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 <sub>FM</sub>	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 <sub>R</sub> = 5V			μA	I <sub>R</sub>	100	100	100	100	100	100	100	100	100	100	100	100										
Peak Emission Wavelength			nm	λ <sub>c</sub>	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 <sub>v</sub>	3500	6000	4000	6000	7000	7500	13000	13000	6000	7000	17000	---										
ABSOLUTE MAXIMUM RATINGS AT 25°C																										
Reverse Voltage			V	V <sub>R</sub>	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Forward Current (avg)			mA	I <sub>F</sub>	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
Peak Forward Current (T<1μs)			mA	I <sub>FS</sub>	80	80	80	80	80	80	80	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



KPC/KLDH4XX Rev. 01 1-1-04

**kwality** ISO 9001-2000

**KWALITY PHOTONICS PRIVATE LIMITED**

29, EC Kushaiguda, Hyderabad-500 062, INDIA, Ph : 91-040-27123555, 27136252 Fax : 91-040-27124762

Email : kwality@kwalityindia.com www.kwalityindia.com