



PART NO.	Common Anode	CA			KLS411	KLS41 SR	KLS41 G	KLS41 SG	KLS41 SY	KLS41 SA	KLS41 UR	KLS41 SO	KLS41 B/UB	KLS41 BG	KLS41 UG	KLS41 W	
	Common Cathode	CC			KLS421	KLS42 SR	KLS42 G	KLS42 SG	KLS42 SY	KLS42 SA	KLS42 UR	KLS42 SO	KLS42 B/UB	KLS42 BG	KLS42 UG	KLS42 W	
	Common Anode	CA			KLS431	KLS43 SR	KLS43 G	KLS43 SG	KLS43 SY	KLS43 SA	KLS43 UR	KLS43 SO	KLS43 B/UB	KLS43 BG	KLS43 UG	KLS43 W	
	Common Cathode	CC			KLS441	KLS44 SR	KLS44 G	KLS44 SG	KLS44 SY	KLS44 SA	KLS44 UR	KLS44 SO	KLS44 B/UB	KLS44 BG	KLS44 UG	KLS44 W	
OPERATING CHARACTERISTICS AT 25°C (Bigger Display may have more than one LED chip per segment)				UNITS	SYMBOL	RED I	SUPER RED SR	GREEN G	SUPER GREEN SG	SUPER YELLOW SY	SUPER AMBER SA	RED UR	SUPER ORANGE SO	BLUE B/UB	BLUE GREEN BG	ULTRA GREEN UG	WHITE W
Semiconductor Composition						AlGaAs		GaP/AlInGaP		AllnGaP			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 @ $V_R = 5V$				$\mu A$	$I_R$	100	100	100	100	100	100	100	100	100	100	100	100
Peak Emission Wavelength				nm	$\lambda_p$	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				$\mu cd$	$I_V$	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																	
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

