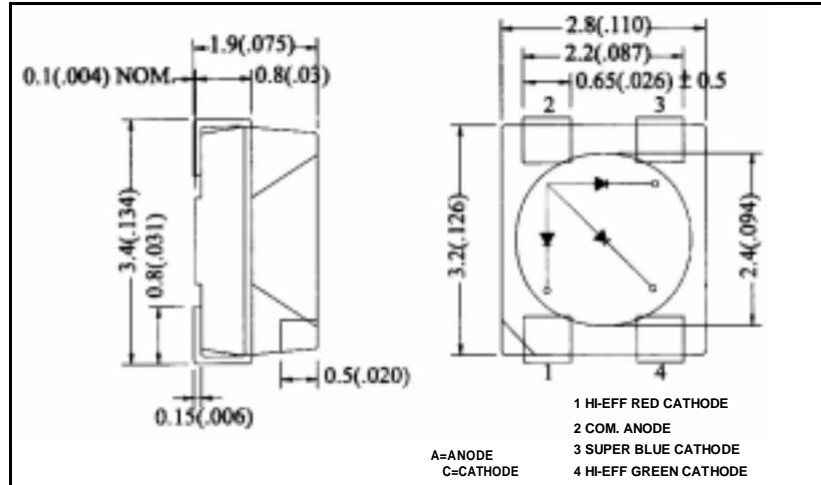


Face Length	MM	2.8
Face Width	MM	3.2
Height	MM	1.9
Pin Spacing	MM	2.2
Row SPacing	MM	3.2
No. of pins	Pins	4
Viewing Angle	2 ϕ /2 Deg.	120

Recommended Combination
KLSL3228 UR-UG-UB

Note : All Dimensions are in mm

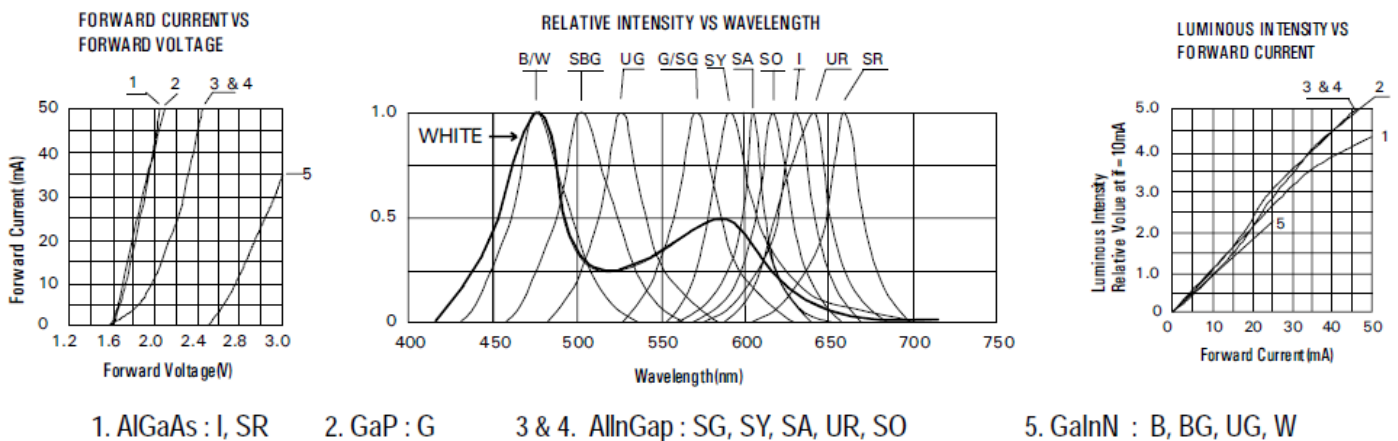


Tolerance ± 0.2 mm

PART NO.	KLSL 3228	KLSL 3228	KLSL 3228	KLSL 3228	KLSL 3228	KLSL 3228	KLSL 3228	KLSL 3228	KLSL 3228	KLSL 3228	KLSL 3228	KLSL 3228	KLSL 3228	KLSL 3228
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 @ 30 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	μ A	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 @ 30mA	mcd	I _V	3500	6000	4000	6000	7000	7500	13000	13000	6000	7000	17000	---
Lumens Flux @70mA	mlm	ϕ_V	-	-	-	-	-	-	-	-	-	-	-	4000
ABSOLUTE MAXIMUM RATINGS AT 25°C	V	V _R	5	5	5	5	5	5	5	5	5	5	5	5
Reverse Voltage	mA	I _F	30	30	30	30	30	30	30	30	30	30	30	30
Forward Current (avg) *(NOTE 1)	mA	I _{FS}	90	90	90	90	90	90	90	90	90	90	90	90
Peak Forward Current (T<1 μ s)														
Operating / Storage Temperature Range	-20° 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														

*NOTE 1. Use Adequate heatsink (250mm² plus) for current above 20mA

ELECTRICAL CHARACTERISTIC CURVES



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