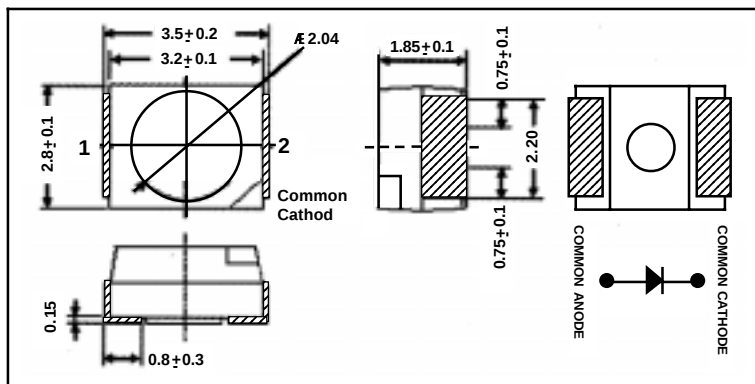


Face Length	MM	3.2
Face Width	MM	2.8
Height	MM	1.8
Pin Spacing	MM	1.5
Row Spacing	MM	3.2
No. of pins	Pins	4
Viewing Angle	2 f/2 Deg.	120



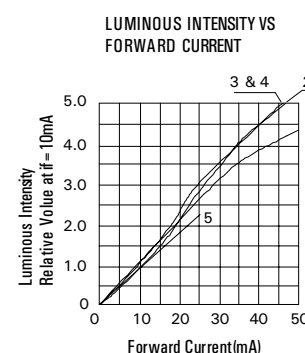
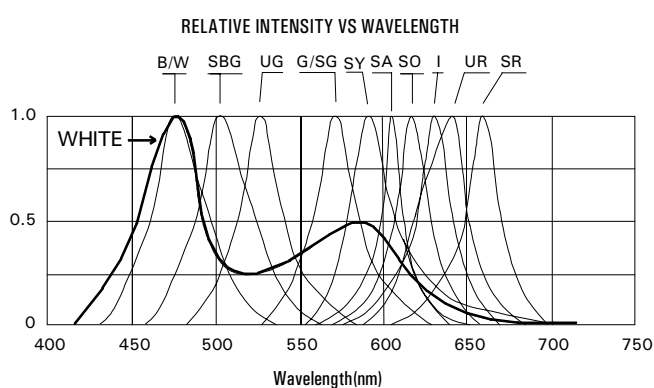
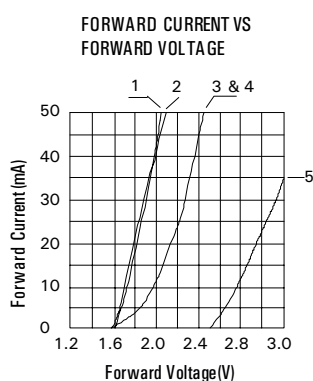
Note : All Dimensions are in mm

Tolerance ± 0.2 mm

PART NO.				KLSL 3228 I	KLSL 3228 SR	KLSL 3228 G	KLSL 3228 SG	KLSL 3228 SY	KLSL 3228 SA	KLSL 3228 UR	KLSL 3228 SO	KLSL 3228 B/UB	KLSL 3228 BG	KLSL 3228 UG	KLSL 3228 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	ULTRA RED UR	SUPER ORANGE SO	BLUE B/UB	BLUE GREEN BG	ULTRA GREEN UG	WHITE W
Semiconductor Composition Forward Voltage - Typical @ 10mA Forward Voltage - Maximum @ 70 mA Reverse Current @ V _R = 5V Peak Emission Wavelength Emission Wavelength Half Width Luminous Intensity per Segment @ 70mA Lumens Flux @70mA			V	V _F V _{FM} mA nm nm mcd mlm	AlGaAs		GaP/AlInGaP		AlInGaP			SiC / GaInN				
					2.10	1.90	2.20	2.20	2.10	2.10	1.90	1.90	3.50	3.50	3.50	3.50
					2.40	2.10	2.60	2.40	2.40	2.40	2.10	2.40	4.50	4.50	4.50	4.50
					100	100	100	100	100	100	100	100	100	100	100	100
					630	660	568	568	590	610	645	620	470	502	525	---
					35	20	30	15	15	20	20	25	30	35	---	---
					3500	6000	4000	6000	7000	7500	13000	13000	6000	7000	17000	---
					-	-	-	-	-	-	-	-	-	-	-	4000
					ABSOLTE MAXIMUM RATINGS AT 25°C			V	V _R	5	5	5	5	5	5	5
Reverse Voltage			mA	I _F	100	100	100	100	100	100	100	100	100	100	100	
Forward Current (avg) *(NOTE 1)			mA	I _{FS}	150	150	150	150	150	150	150	150	150	150	150	
Peak Forward Current (T<1ms)																
Operating / Storage Temperature Range			-10° C to + 85° C													
Lead Soldering Temperature			< 200° 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



1. AlGaAs : I, SR

2. GaP : G

3 & 4. AlInGaP : SG, SY, SA, UR, SO

5. GaInN : B, BG, UG, W

KPC/KLSSL3228

Rev. 00

1-1-04

kwality
ISO 9001-2000

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