



深圳市煜森科技有限公司

CHINA YUN SUN LED TECHNOLOGY CO., LTD.

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Model No.: YSL-R1047CR4G3BW-F8
RED/GREEN/BLUE Tricolor LED

Applications:

- Moving Message Display
- Full Color Display
- Banking Board
- Score Boards
- Digital Display

LED Chip Absolute Maximum Ratings: (Ta=25 °C)

Parameter	Symbol	Red	Green	Blue	Unit
Forward current	I _F	20	20	20	mA
Peak forward current (Duty Cycle=1/10, 10KHz)	I _{PF}	30	30	30	mA
Reverse current (V _R =5V)	I _R	10	10	10	μA
Operating temp	T _{OPR}	-25 ~ 85	-25 ~ 85	-25 ~ 85	°C
Storage temp	T _{STG}	-30 ~ 85	-30 ~ 85	-30 ~ 85	°C
Peak Emission Wavelength	λ _{PH}	625	520	467.5	nm

* Soldering Bath: not more than 5 seconds @260 °C. The bottom ends of the plastic reflector should be at least 2mm above the solder surface

Soldering Iron: not more than 3 seconds @300 °C under 30W

LED Chip Typical Electrical & Optical Characteristics: (Ta=25 °C)

ITEMS	Color	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	Red	V _F	I _F =20mA	1.8	2.0	2.2	V
	Green			3.0	3.2	3.4	
	Blue			2.9	3.1	3.3	
Luminous Intensity	Red	I _v	I _F =20mA	500	550	600	mcd
	Green			200	250	3000	
	Blue			650	700	750	
Wavelength	Red	Δ λ	I _F =20mA	620	623	625	nm
	Green			515	517.5	520	
	Blue			465	466	467.5	
Light Degradation after 1000 hours	Red	-4.68% ~ -8.27%					
	Green	-11.37% ~ -15.30%					
	Blue	-8.23% ~ -16.81%					

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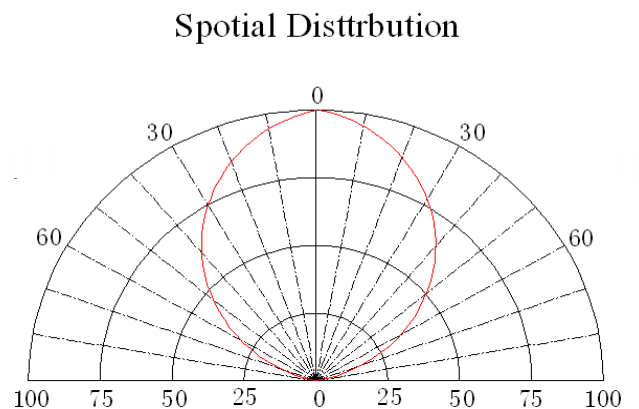
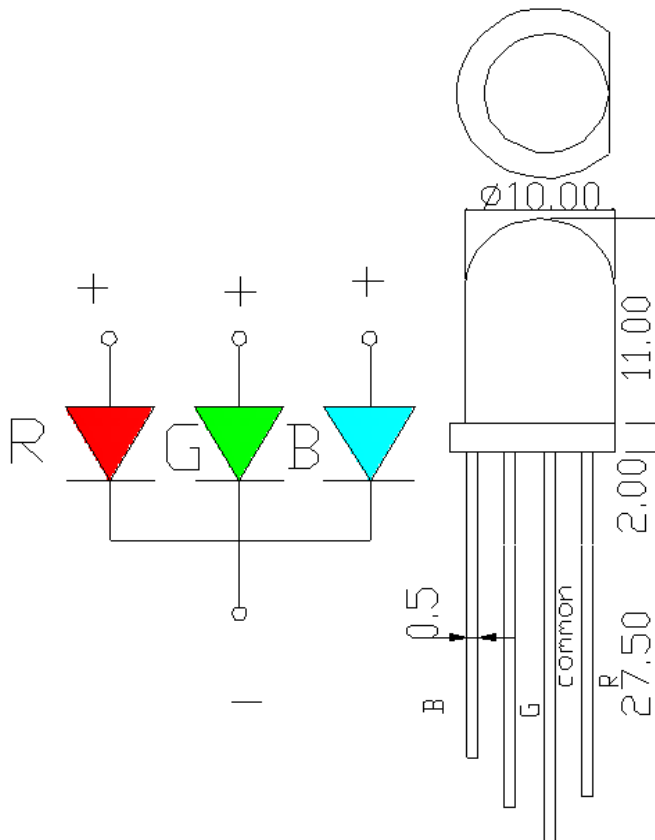
Light Degradation in mcd: ($I_F=20mA$)

Hours Colors	Light Degradation in mcd after Different Hours					
	216 Hrs	360 Hrs	792 Hrs	1104 Hrs	1992 Hrs	2328 Hrs
Red	1.52%	-1.22%	-3.10%	-4.68%	-5.72%	-8.27%
Green	-8.02%	-9.78%	-10.25%	-11.37%	-13.79%	-15.30%
Blue	3.13%	-0.33%	-3.84%	-8.23%	-14.32%	-16.81%

Mechanical Dimensions:

- All dimension are in mm, tolerance is $\pm 0.2mm$ unless otherwise noted
- An epoxy meniscus may extend about 1.5mm down the leads.
- Burr around bottom of epoxy may be 0.5mm Maximum

Unit: mm



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