



深圳市煜森科技有限公司

CHINA YUN SUN LED TECHNOLOGY CO., LTD.

TEL: (86) 755-28079401 28079402 28079403 28079404 28079405

FAX: (86) 755-28079407 E-mail: info@100LED.com Web: www.100LED.com

**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 <sub>F</sub>	20	20	20	mA
Peak forward current (Duty Cycle=1/10, 10KHz)	I <sub>PF</sub>	30	30	30	mA
Reverse current (V <sub>R</sub> =5V)	I <sub>R</sub>	10	10	10	μA
Operating temp	T <sub>OPR</sub>	-25 ~ 85	-25 ~ 85	-25 ~ 85	°C
Storage temp	T <sub>STG</sub>	-30 ~ 85	-30 ~ 85	-30 ~ 85	°C
Peak Emission Wavelength	λ <sub>PH</sub>	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 <sub>F</sub>	I <sub>F</sub> =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 <sub>v</sub>	I <sub>F</sub> =20mA	500	550	600	mcd
	Green			200	250	3000	
	Blue			650	700	750	
Wavelength	Red	Δ λ	I <sub>F</sub> =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%					

Address: 5/F, Building B, Anzhihong Indl., Qinghua East Road., Longhua Town, Shenzhen CHINA. 518109

[www.100LED.com](http://www.100LED.com)

ONE HUNDRED LED  
 PERFECT LED



深圳市煜森科技有限公司

CHINA YUN SUN LED TECHNOLOGY CO., LTD.

TEL: (86) 755-28079401 28079402 28079403 28079404 28079405

FAX: (86) 755-28079407 E-mail: info@100LED.com Web: www.100LED.com

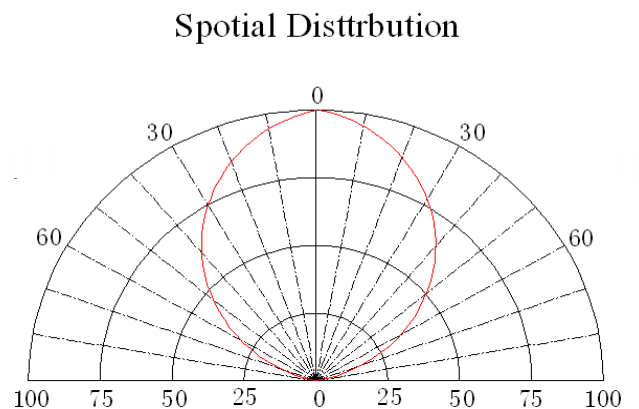
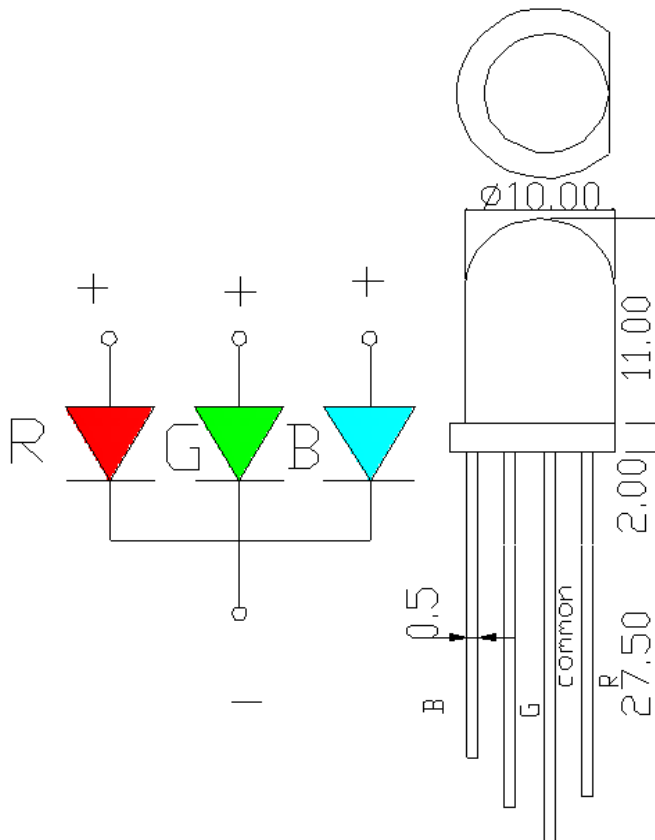
### Light Degradation in mcd: ( $I_F=20mA$ )

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



Address: 5/F, Building B, Anzhilong Indl., Qinghua East Road., Longhua Town, Shenzhen CHINA. 518109

[www.100LED.com](http://www.100LED.com)

ONE HUNDRED LED  
PERFECT LED

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[SparkFun Electronics:](#)

[COM-11120](#)