

## CHINA YOUNG SUN LED TECHNOLOGY CO., LTD.

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

Model No.: YSL-R596CR3G4B5C-C10 RED/GREEN/BLUE Triple Color LED

### Applications:

■Full Color Display

■Banking Board

□ Digital Display

LED Chip Absolute Maximum Ratings:  $(Ta=25^{\circ}C)$ 

Pararmeter	Symbol	Red	Green	Blue	Unit
Forward current	lf	20	20	20	mA
Peak forward current(Duty Cycle=10, 10KHz)	<b>P</b> F	30	30	30	mA
Reverse current $(V_R=5V)$	IR	10	10	10	μA
Operating temp	Topr	-25~ 85	-25~ 85	-25~ 85	℃
Storage temp	Тѕтс	-30~85	-30~85	-30~85	${\mathbb C}$
Peak Emission Wavelength	λРн	625	520	467.5	nm

<sup>\*</sup> Soldering Bath: not more than 5 seconds @260  $^{\circ}$ 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 ℃ under 30W

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

ITEMS	Color	Symbol	Condition	Min.	Тур.	Max.	Unit	
Forward Voltage	Red			1.8	2.0	2.2		
	Green	VF	I <sub>F</sub> =20mA	3.0	3.2	3.4	V	
	Blue			3.0	3.2	3.4		
	Red					800		
Luminous Intensity	Green	Iv	I <sub>F</sub> =20mA			4000	mcd	
	Blue					900		
	Red			620	623	625		
Wavelenength	Green	<i>\Delta 10</i>	I <sub>F</sub> =20mA	515	517.5	520	nm	
	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, Anzhilong Indl., Qinghua East Road., Longhua Town, Shenzhen CHINA. 518109



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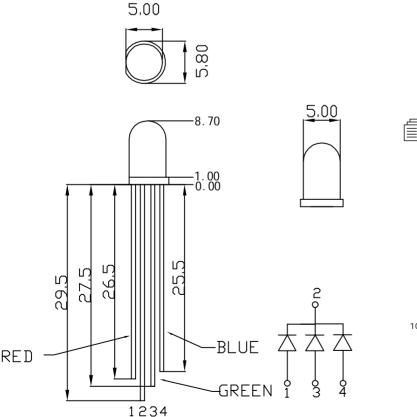
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### Light Degradation in mcd: (I = 20mA)

Hours	Light Degradation in mcd after Different Hours								
Colors	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%			

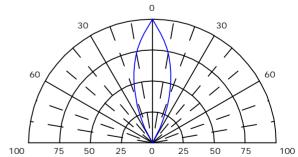
#### **Mechanical Dimensions:**

- all dimension are in mm, tolerance is i 0.2mm unless otherwise noted
- ■Burr around bottom of epoxy may be 0.5mm Maximum



Unit: mm

Viewing Angle Drawing



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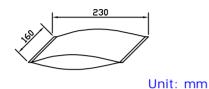
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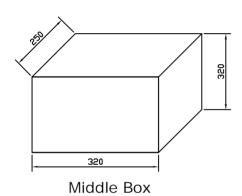
FAX: (86) 755-28079407 E-mail: info@100LED.com Web: www.100LED.com

## **Packing Information:**

### 

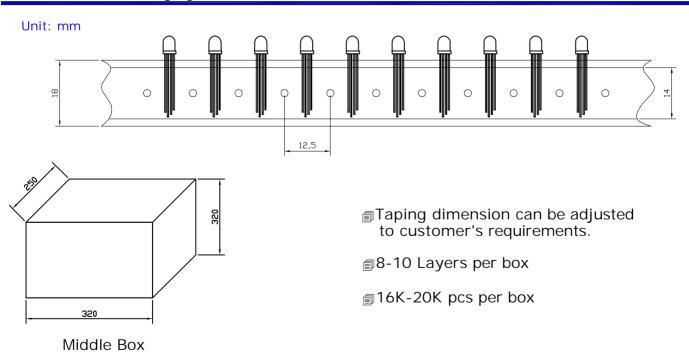


■With 1 little bag of drier inside



#### **Anti-static Tube Packaging Information:**

www.100LED.com



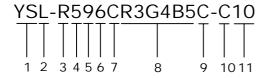
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### **Code System:**



28079405

R: Round B: Bullet C: Columnar O: Oval

H: Helmet Q: Square V: Concave P: Pagoda

S: Strawhat D: Special

■4. Code for LED Lens Type.

- ■5. Code for Lead Frame of LED
- 7. Code for polarity(A: Anode C: Cathode)

C: Water Clear W: White Diffused D: Color Diffused T: Color Transparent

A: 0-10 B: 10-20 C: 20-30 D: 30-40 E: 40-60 F: 60-90 G: 90-120 H: >120

#### Warrantee:

- In order to make the LEDs lifespan longer, please set the input current below 20mA.
- Electrical & Optical Characteristics consistency of same items all shippments.

#### **Notes:**

- Please use LEDs based on our datasheet.
- LED is senstive to statics, be sure your equipments are anti-static when you use our LEDs.
- Pay more attention to your heat dissipation system when you use it, the better heat dissipation, the longer LED lifespan.