

# 深圳市昱申科技有限公司

CHINA YOUNG SUN LED TECHNOLOGY CO., LTD.

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

FAX: (86) 755-28079407 E-mail: [info@100LED.com](mailto:info@100LED.com) Web: [www.100LED.com](http://www.100LED.com)

## Model No.: YSLB-10251G5-10

### Applications:

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

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

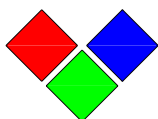
| Parameter                                               | Symbol           | GREEN    | Unit |
|---------------------------------------------------------|------------------|----------|------|
| Forward current                                         | I <sub>F</sub>   | 20       | mA   |
| Peak forward current(Duty Cycle= $\frac{1}{10}$ ,10KHz) | I <sub>PF</sub>  | 30       | mA   |
| Reverse voltage (V <sub>R</sub> =5V)                    | I <sub>R</sub>   | 10       | μA   |
| Operating temp                                          | T <sub>OPR</sub> | -25 - 85 | °C   |
| Storage temp                                            | T <sub>STG</sub> | -30 - 85 | °C   |
| Peak Emission Wavelength                                | λ <sub>PH</sub>  | 527.5    | 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                              | Symbol         | Condition            | Min.              | Typ. | Max.  | Unit |
|------------------------------------|----------------|----------------------|-------------------|------|-------|------|
| Forward Voltage                    | V <sub>F</sub> | I <sub>F</sub> =20mA | 3.2               | 3.4  | 3.6   | V    |
| Luminous Intensity                 | I <sub>v</sub> | I <sub>F</sub> =20mA | 50                | 55   | 60    | mcd  |
| Wavelength                         | Δλ             | I <sub>F</sub> =20mA | 525               | ---- | 527.5 | nm   |
| Light Degradation after 1000 hours |                |                      | -4.68 % ~ -8.27 % |      |       |      |



深圳市昱申科技有限公司

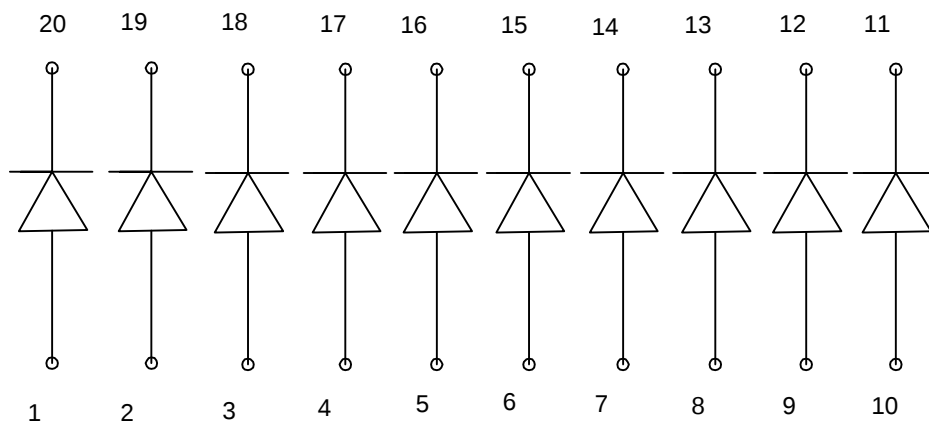
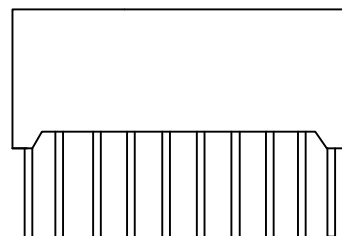
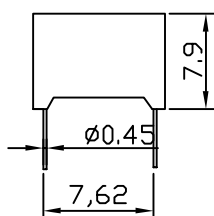
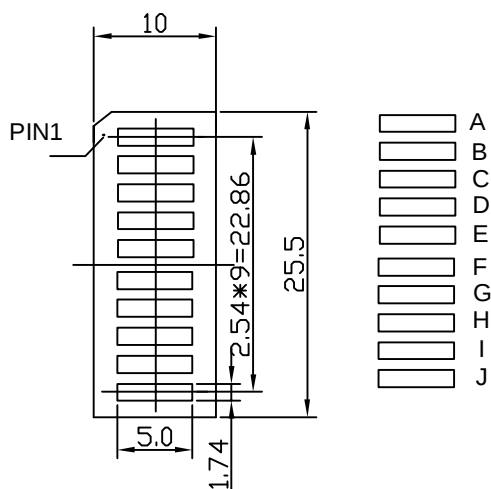
CHINA YOUNG SUN LED TECHNOLOGY CO., LTD.

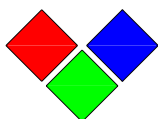
TEL: (86) 755-28079401 28079402 28079403 28079404 28079405

FAX: (86) 755-28079407 E-mail: [info@100LED.com](mailto:info@100LED.com) Web: [www.100LED.com](http://www.100LED.com)

#### Mechanical Dimensions:

- . All dimension are in mm, tolerance is  $\pm 0.2\text{mm}$  unless otherwise noted
- . An epoxy meniscus may extend about 1.5mm down the leads.





# 深圳市昱申科技有限公司

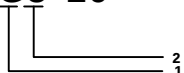
CHINA YOUNG SUN LED TECHNOLOGY CO., LTD.

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

FAX: (86) 755-28079407 E-mail: [info@100LED.com](mailto:info@100LED.com) Web: [www.100LED.com](http://www.100LED.com)

## Code System:

**YSLB-102510G5-10**



### . 1. Color:

R: Red A: Amber K: Kelly Y: Yellow  
G: Green C: Cyan P: Purple W: White

### . 2. Wavelength or Color Temperature Range:

|               |                 |                 |                 |                |
|---------------|-----------------|-----------------|-----------------|----------------|
| R1: 620-625nm | K1: 565-570nm   | C1: 495-497.5nm | B3: 460-462.5nm | P1: 375-380nm  |
| R2: 625-630nm | K2: 570-573nm   | C2: 497.5-500nm | B4: 462.5-465nm | P2: 390-395nm  |
| R3: 630-635nm | G1: 515-517.5nm | C3: 500-502.5nm | B5: 465-467.5nm | P3: 395-400nm  |
| R4: 635-640nm | G2: 517.5-520nm | C4: 502.5-505nm | B6: 467.5-470nm | P4: 400-405nm  |
| R5: 640-645nm | G3: 520-522.5nm | C5: 505-507.5nm | B7: 470-472.5nm | P5: 405-410nm  |
| A1: 600-605nm | G4: 522.5-525nm | C6: 507.5-510nm | B8: 472.5-475nm | W1: 9000-11000 |
| A2: 605-610nm | G5: 525-527.5nm | C7: 510-512.5nm |                 | W2: 6000-8000K |
| Y1: 584-587nm | G6: 527.5-530nm | C8: 512.5-515nm |                 | W3: 2700-4000K |
| Y2: 587-590nm | G7: 530-532.5nm | B1: 455-457.5nm |                 |                |
| Y3: 590-593nm | G8: 532.5-535nm | B2: 457.5-460nm |                 |                |

## Warrantee:

- . 3 years warrantee for our red, yellow, amber and kelly items based on no more than hours continously lighting per day.
- . 2 years warrantee for our Blue, Green, Cyan and Purple items based on no more than hours continously lighting per day.
- . 1 years warrantee for our Cool White, Pure White and Warm White items based on no more than 8 hours continously lighting per day.
- . Electrical & Optical Characteristics consistency of same items all shippments.

## Notes:

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

# Mouser Electronics

Authorized Distributor

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

[SparkFun Electronics:](#)

[COM-09938](#)