

## T-1 (3mm) RIGHT ANGLE LED INDICATOR

Part Number: L-710A8RS/1GD

Green

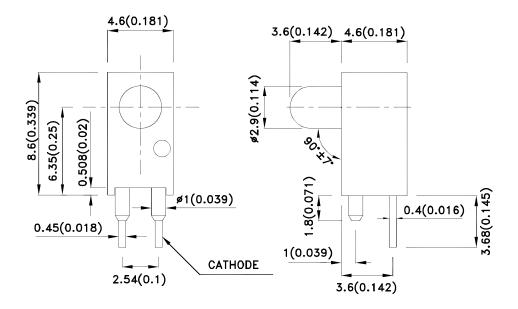
#### **Features**

- Pre-trimmed leads for pc mounting.
- Pillars are designed for positioning the housing on P.C.
- Black case enhances contrast ratio.
- Wide viewing angle.
- High reliability life measured in years.
- Housing UL rating:94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.

### Description

The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

### **Package Dimensions**



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- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.

  4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

SPEC NO: DSAE7185 **REV NO: V.8** 

**CHECKED: Allen Liu** 



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### **Selection Guide**

| Part No.      | Dice Lens Type |                | lv (mcd) [2] Lens Type @ 10mA |      | Viewing<br>Angle [1] |
|---------------|----------------|----------------|-------------------------------|------|----------------------|
|               |                |                | Min.                          | Тур. | 201/2                |
| L-710A8RS/1GD | Green (GaP)    | Green Diffused | 8                             | 25   | 40°                  |

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

  2. Luminous intensity/ luminous Flux: +/-15%.

## Electrical / Optical Characteristics at TA=25°C

| Symbol | Parameter                | Device | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|--------|------|------|-------|-----------------|
| λpeak  | Peak Wavelength          | Green  | 565  |      | nm    | IF=20mA         |
| λD [1] | Dominant Wavelength      | Green  | 568  |      | nm    | IF=20mA         |
| Δλ1/2  | Spectral Line Half-width | Green  | 30   |      | nm    | IF=20mA         |
| С      | Capacitance              | Green  | 15   |      | pF    | VF=0V;f=1MHz    |
| VF [2] | Forward Voltage          | Green  | 2.2  | 2.5  | V     | IF=20mA         |
| lR     | Reverse Current          | Green  |      | 10   | uA    | VR = 5V         |

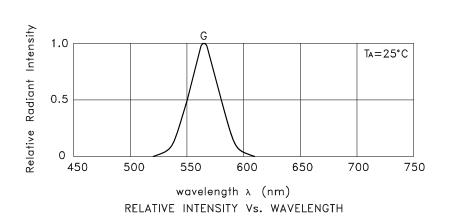
- Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

#### Absolute Maximum Ratings at TA=25°C

| Parameter                     | Green               | Units |  |
|-------------------------------|---------------------|-------|--|
| Power dissipation             | 62.5                | mW    |  |
| DC Forward Current            | 25                  | mA    |  |
| Peak Forward Current [1]      | 140                 | mA    |  |
| Reverse Voltage               | 5                   | V     |  |
| Operating/Storage Temperature | -40°C To +85°C      |       |  |
| Lead Solder Temperature [2]   | 260°C For 3 Seconds |       |  |
| Lead Solder Temperature [3]   | 260°C For 5 Seconds |       |  |

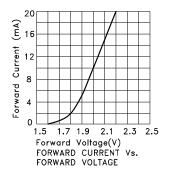
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
   5mm below package base.

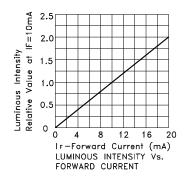
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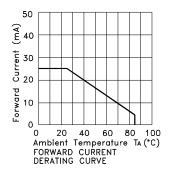


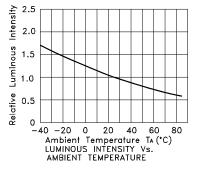
Green

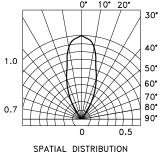
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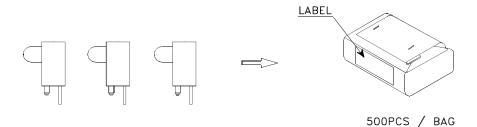


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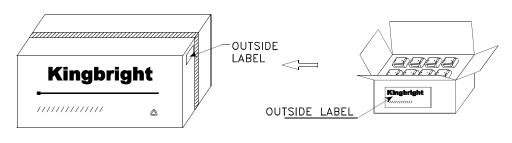
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### **PACKING & LABEL SPECIFICATIONS**

#### L-710A8RS/1GD

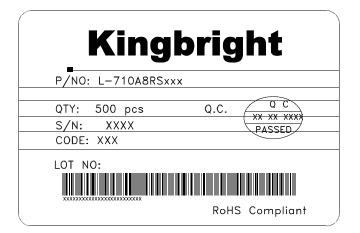






40K / 9# BOX

### 20K / 5# BOX

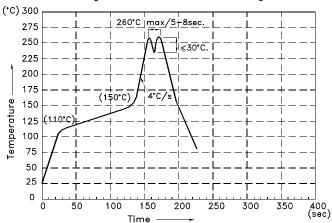


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- NOTES: 1.Recommend the wave temperature 245°C~260°C.The
  - maximum soldering temperature should be less than 260°C. 2.Do not apply stress on epoxy resins when temperature is over 85°C.
  - 3. The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
  - 4.During wave soldering, the PCB top-surface temperature should be kept below 105°C.5.No more than once.

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