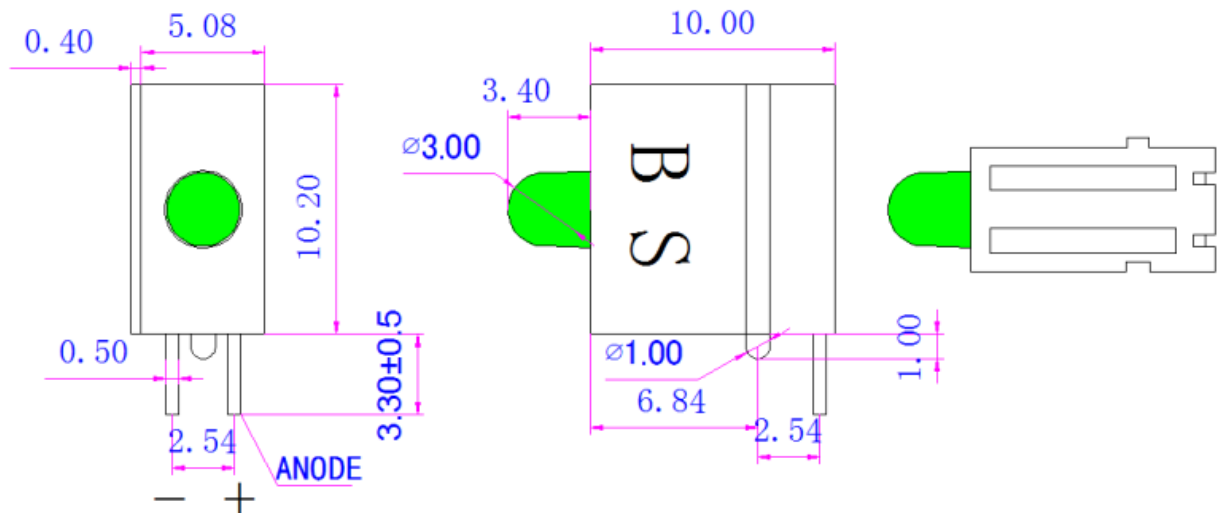


**Dimensions:**

**Notes:**

All dimensions are in millimeters (inches).  
 Tolerance is  $\pm 0.25$  (0.01") unless otherwise noted.  
 Specifications are subject to change without notice

| Part No.      | Emitted Color | Lens Color     | Iv (mcd) (IF=20mA) |      |     | Viewing Angle<br>(2 $\theta$ $\frac{1}{2}$ ) |
|---------------|---------------|----------------|--------------------|------|-----|--|
|               |               |                | Min.               | Typ. | Max |  |
| SE-1LUG32D-RV | Green         | Green Diffused | -                  | 50   | -   | 60°  |

**Absolute Maximum Ratings (Ta=25°C)**

| Item   | Symbol      | Maximum     | Unit |
|--|-------------|-------------|------|
| Power Dissipation  | PD          | 78          | mW   |
| Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width) | IFP         | 90          | mA   |
| Continuous Forward Current                               | IFmax       | 30          | mA   |
| Reverse Voltage  | VR          | 5           | V    |
| Electrostatic discharge                                  | ESD         | 1000        | V    |
| Operating Temperature Range                              | Topr / Tstg | -40 to +85  |      |
| Storage Temperature Range                                | Topr / Tstg | -40 to +100 |      |

**Electrical / Optical Characteristics (Ta=25°C)**

| Item                      | Symbol          | Min. | Typ. | Max. | Unit | Condition |
|---------------------------|-----------------|------|------|------|------|-----------|
| Peak Wavelength           | $\lambda_p$     | -    | 573  | -    | nm   | IF=20mA   |
| Dominant Wavelength       | $\lambda_d$     | -    | 572  | -    | nm   | IF=20mA   |
| Spectral Line Coordinates | $\Delta\lambda$ | -    | 30   | -    | nm   | IF=20mA   |
| Forward Voltage           | VF              | -    | 2.1  | 2.6  | V    | IF=20mA   |
| Reverse Current           | IR              | -    | -    | 10   | uA   | VR=5V     |

Typical Electro-Optical Characteristic Curve

FIG. 1 Forward Current Vs. Forward Voltage

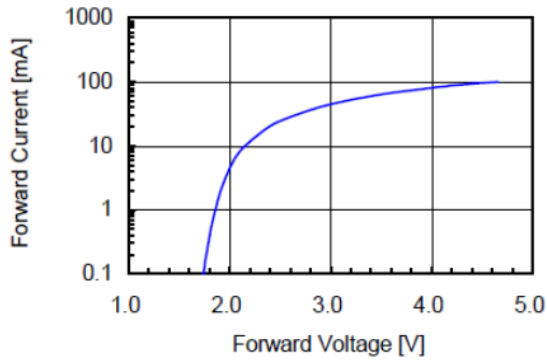


FIG. 2 Relative Intensity Vs. Forward Current

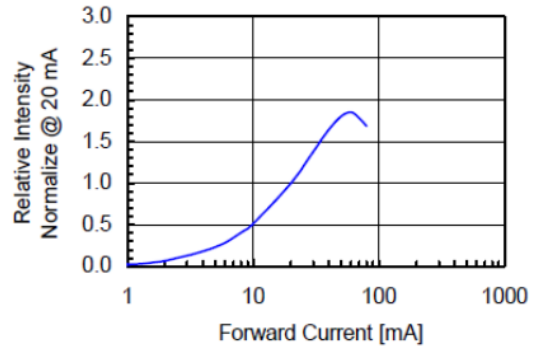


FIG. 3 Forward Voltage Vs. Temperature

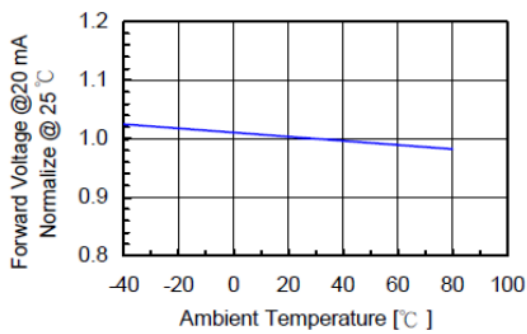


FIG. 4 Relative Intensity Vs. Temperature

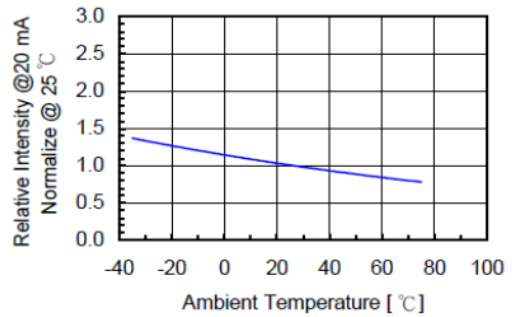
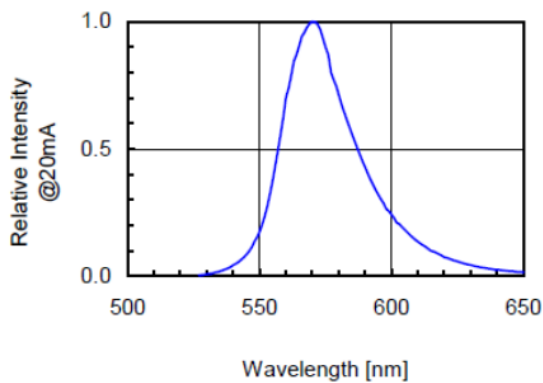
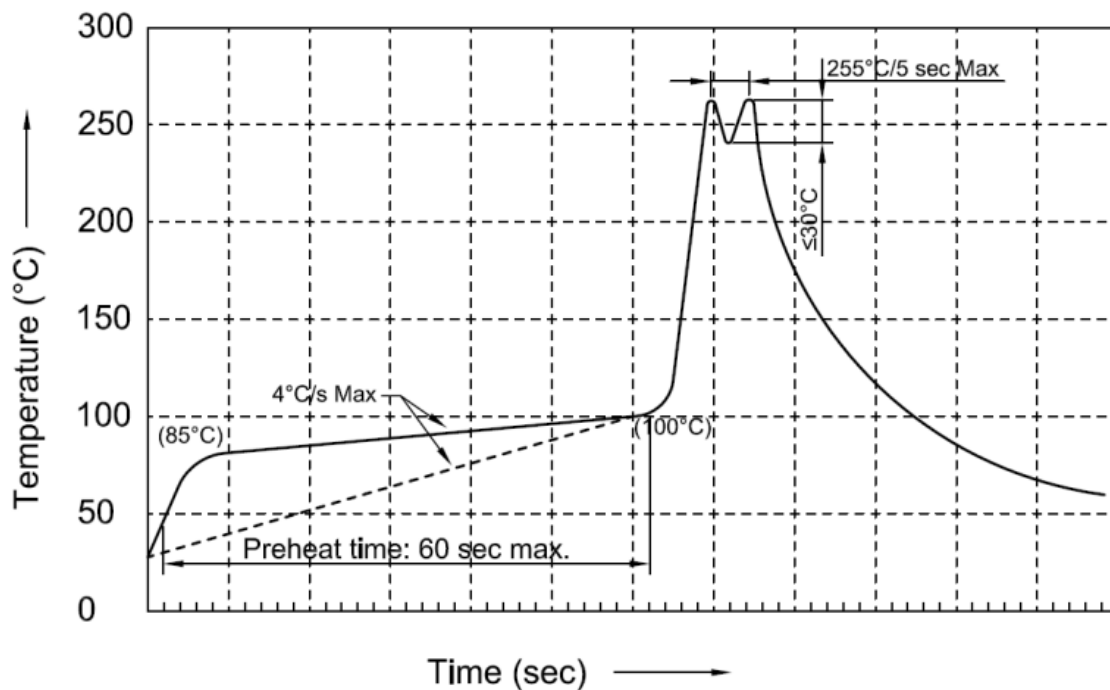


FIG. 5 Relative Intensity Vs. Wavelength



**Recommended Wave Soldering Profiles:**



**Notes:**

1. Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C.
  2. Peak wave soldering temperature between 245-255°C for 3 sec (5 sec max).
  3. Do not apply stress to the epoxy resin while the temperature is above 85°C.
  4. Fixtures should not apply stress on the component when mounting and soldering process.
- More than one wave soldering is not allowed.