

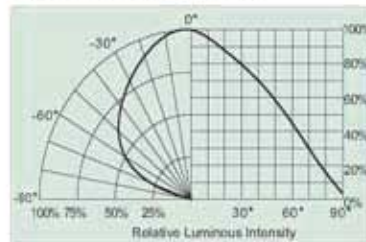
## 2x5x7.2mm Rectangular Lamp



### Characters

- Viewing angle 120°
- For LED Screen
- UV resistant epoxy

### Directive Characteristics



### Package Outlines (Unit: mm)



General Tolerance:  $\pm 0.2$   
Unless note otherwise

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

| Parameter              | Symbol    | Value      |     | Unit |
|------------------------|-----------|------------|-----|------|
|                        |           | Green/Blue | Red |      |
| Power Dissipation      | $P_D$     | 100        | 125 | mW   |
| DC forward Current     | $I_F$     | 30         | 50  | mA   |
| Pulsed Forward Current | $I_{FP}$  | 100        | 150 | mA   |
| Reverse Voltage        | $V_R$     | 5          | 5   | V    |
| Operating Temperature  | $T_{opr}$ | -30~+80    |     | °C   |
| Storage Temperature    | $T_{stg}$ | -40~+100   |     | °C   |

\* Duty 1/10 Pulse Width 0.1ms

### Electrical Optical Characteristics (Ta=25°C)

| Part Number    | Material     | Chip            |     | Emitted Color | Lens Type | IF(mA) | VF(V) |     | IV(mcd) |     |
|----------------|--------------|-----------------|-----|---------------|-----------|--------|-------|-----|---------|-----|
|                |              | $\Delta p$ (nm) |     |               |           |        | Min   | Max | Min     | Max |
|                |              | Min             | Max |               |           |        |       |     |         |     |
| RL60-UR513/S1  | AlGaInP/GaAs | 625             | 635 | Ultra Red     | Diffused  | 20     | 1.7   | 2.8 | 100     | 300 |
| RL60-GH714D/S1 | InGaN/GaN    | 515             | 525 | Pure Green    | Diffused  | 20     | 3.0   | 3.8 | 300     | 535 |
| RL60-CB714D/S1 | InGaN/GaN    | 465             | 475 | Blue          | Diffused  | 20     | 3.0   | 3.8 | 100     | 300 |

### Luminous Intensity Rank

| Luminous Intensity(mcd) |         |            |         |      |         |
|-------------------------|---------|------------|---------|------|---------|
| Ultra Red               |         | Pure Green |         | Blue |         |
| Rank                    | Data    | Rank       | Data    | Rank | Data    |
| X                       | 100-150 | E          | 300-400 | X    | 100-150 |
| X1                      | 150-215 | E1         | 350-460 | X1   | 150-215 |
| A                       | 215-300 | F1         | 400-535 | A    | 215-300 |

### Package

Bulk-----500Pcs/bag  
Taping-----3000Pcs/reel

### Precautions in handling

1. When soldering, leave 2.0mm of minimum clearance between the resin and the soldering point.
2. Blue, Green and White products are so sensitive to ESD, that users required to handle with care.

## Reliability Test

| No | Item                               | Test Condition                   | Test Hours/Cycles | Samples Tested | Acc./Rej |
|----|------------------------------------|----------------------------------|-------------------|----------------|----------|
| 1  | Room Temperature DC Operating Life | Ta=25°C,IF=20mA                  | 1000 Hrs          | 76             | 0/1      |
| 2  | Thermal Shock                      | -10°C(5min)→(10sec)→+100°C(5min) | 100 Cycles        | 76             | 0/1      |
| 3  | Temperature ycle                   | -40°C(30min)→(5min)→+85°C(30min) | 100 Cycles        | 76             | 0/1      |
| 4  | High Temp./ High Humi. Test        | 85°C/85%RH                       | 1000 Hrs          | 76             | 0/1      |
| 5  | High Temperature Storage           | Ta=100°C                         | 1000 Hrs          | 76             | 0/1      |
| 6  | Low Temperature Storage            | Ta= - 40°C                       | 1000 Hrs          | 76             | 0/1      |
| 7  | Soldering Heat                     | 260°C ± 5°C                      | 5 Seconds         | 76             | 0/1      |

## Typical Electrical / Optical Characteristics Curves 25°C Ambient Temperature Unless Otherwise Noted)

