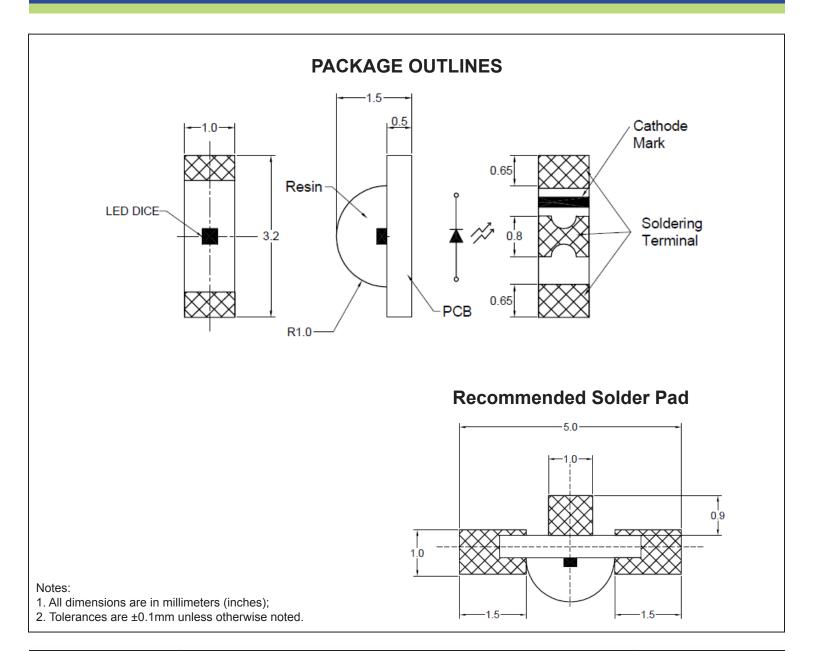


SPECIFICATIONS CSR125R2C



| Part Number | Chip Material | Color of Emission | Lens Type | Viewing Angle |
|-------------|---------------|-------------------|-------------|---------------|
| CSR125R2C | AlGaInP | Red | Water Clear | 110° |





ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

| Parameter | Symbol | Value | Unit | |
|---|------------------|-------------------------|------|--|
| Forward current | If | 30 | mA | |
| Reverse current @ 5V | Ir | 10 | μΑ | |
| Power dissipation | Pd | 72 | mW | |
| Operating temperature range | Тор | -40~+85 | °C | |
| Storage temperature range | Tstg | -40~+90 | °C | |
| Peak pulsing current (1/10 duty f= 10KHz) | lfp | 90 | mA | |
| Soldering Temperature | T _{SOL} | Max 260°C for 5 sec Max | | |

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

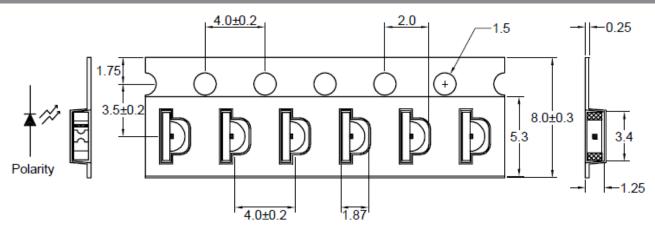
| December | Symbol | T (0 III) | Value | | | |
|-----------------------------|--------|-----------------------|-------|-----|-----|------|
| Parameter | | Test Condition | Min | Тур | Max | Unit |
| Wavelength at peak emission | λpeak | I _F = 20mA | - | 645 | - | nm |
| Spectral half bandwidth | Δλ | I _F = 20mA | - | 20 | - | nm |
| Dominant wavelength | λdom | I _F = 20mA | - | 630 | - | Nm |
| Forward Voltage | Vf | I _F = 20mA | 1.5 | ı | 2.4 | V |
| Luminous intensity | lv | I _F = 20mA | 32 | 60 | - | mcd |
| Viewing angle at 50% lv | 20 ½ | I _F = 20mA | - | 110 | - | Deg |

^{*}NOTE: 1. The forward voltage data did not including ±0.1V tolerance 2. The luminous intensity data did not including ±15% tolerance



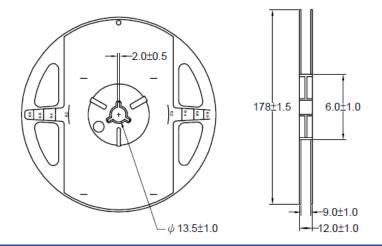


DIMENSIONS OF TAPE (Unit: mm)



NOTE: The tolerances unless mentioned is ± 0.1 mm, Angle ± 0.5 . Unit = mm.

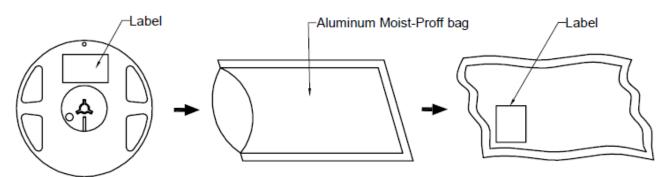
REEL DIMENSIONS



NOTES:

- 1. Empty component pockets are sealed with top cover tape;
- 2. The maximum number of missing lamps is two;
- 3. The cathode is oriented towards the tape sprocket hole.
- 4. 3,000pcs/Reel

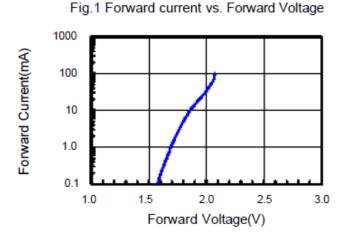
PACKAGING SPECIFICATION







OPTICAL CHARACTERISTIC CURVES



3.5
Normalize @50mA
Normalize @50mA
1.5
1.0
0.5

10

100

Forward Current(mA)

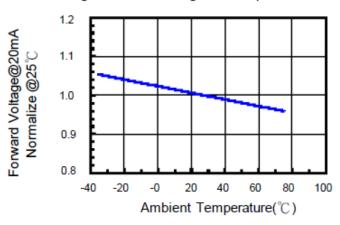
1000

0

1.0

Fig.2 Relative Intensity vs. Forward Current

Fig.3 Forward Voltage vs. Temperature



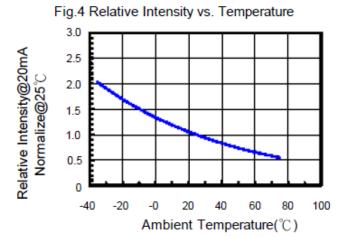
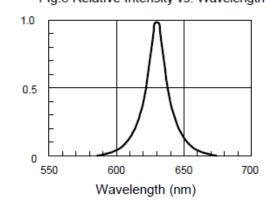
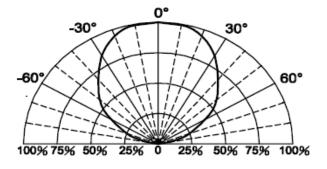


Fig.5 Relative Intensity vs. Wavelength



Relative Intensity@20mA

Fig.6 Directive Radiation





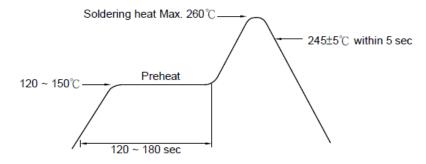


SOLDERING CONDITIONS – LAMP TYPE LED

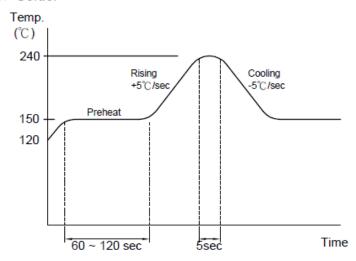
Hand Solder

Basic spec is $\leq 280^{\circ}$ C 3 sec one time only.

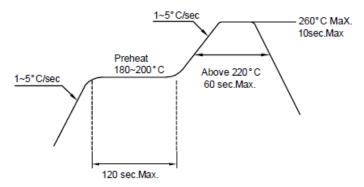
2. Wave Solder



3-1, LEAD Reflow Solder



3-2 PB-Free Reflow Solder



Reflow Soldering should not be done more than two times.

