

KPBA-3010SRSGC-PRV

SUPER BRIGHT RED
SUPER BRIGHT GREEN

Features

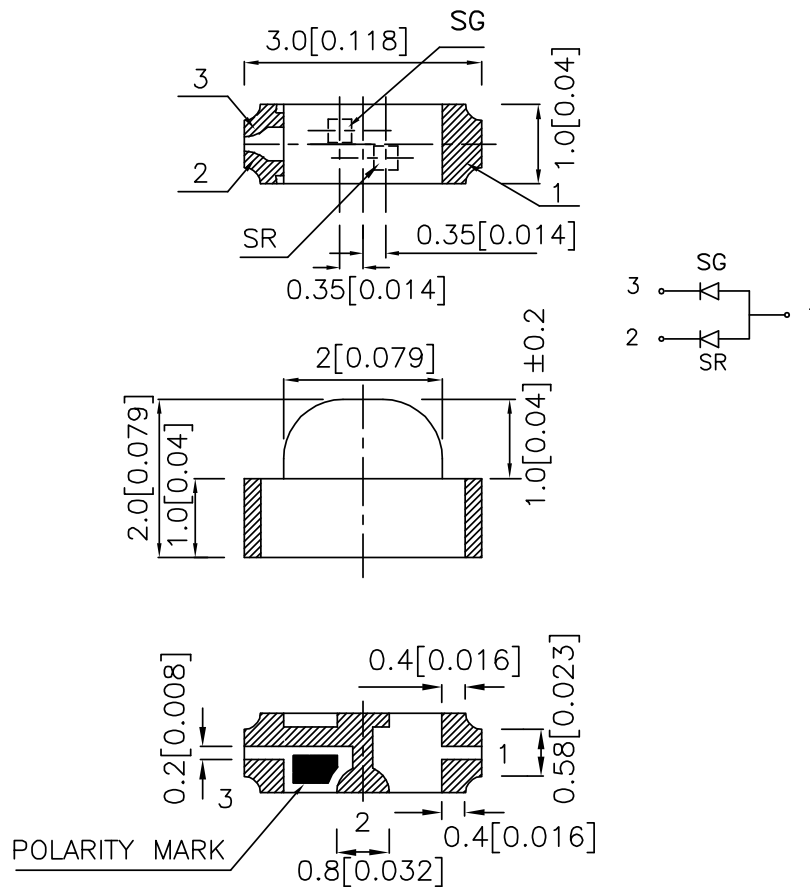
- 3.0mmx1.0mm RIGHT ANGLE SMT LED, 2.0mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLRS AND LENS TYPES AVAILABLE.
- PACKAGE : 2000PCS / REEL.

Description

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

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

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.15(0.006)$ unless otherwise noted.
3. Specifications are subject to change without notice.

Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) @ 20mA | | Viewing Angle |
|--------------------|---------------------------|-------------|--------------------|------|------------------|
| | | | Min. | Typ. | θ1/2 |
| KPBA-3010SRSGC-PRV | SUPER BRIGHT RED (GaAlAs) | WATER CLEAR | 50 | 80 | 140° |
| | SUPER BRIGHT GREEN (GaP) | | 4 | 12 | |

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

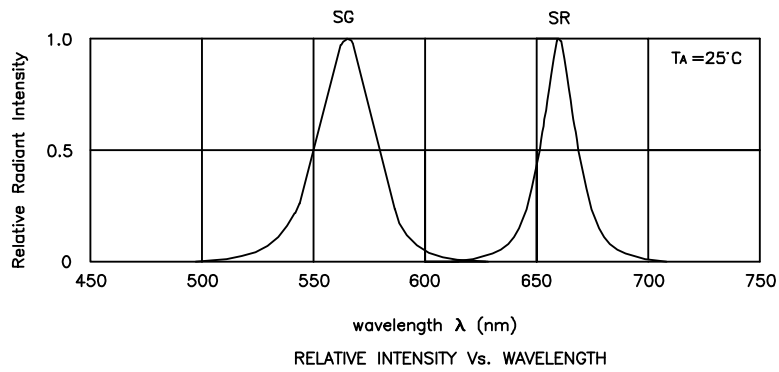
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-----------------------|--------------------------|--|-------------|------------|-------|-----------------|
| λ_{peak} | Peak Wavelength | Super Bright Red Super Bright Green | 660 565 | | nm | IF=20mA |
| λ_D | Dominant Wavelength | Super Bright Red Super Bright Green | 640 568 | | nm | IF=20mA |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Super Bright Red Super Bright Green | 20 30 | | nm | IF=20mA |
| C | Capacitance | Super Bright Red Super Bright Green | 45 15 | | pF | VF=0V;f=1MHz |
| VF | Forward Voltage | Super Bright Red Super Bright Green | 1.85 2.2 | 2.5 2.5 | V | IF=20mA |
| IR | Reverse Current | All | | 10 | uA | VR = 5V |

Absolute Maximum Ratings at TA=25°C

| Parameter | Super Bright Red | Super Bright Green | Units |
|-------------------------------|------------------|--------------------|-------|
| Power dissipation | 100 | 105 | mW |
| DC Forward Current | 30 | 25 | mA |
| Peak Forward Current [1] | 155 | 140 | mA |
| Reverse Voltage | 5 | 5 | V |
| Operating/Storage Temperature | -40°C To +85°C | | |

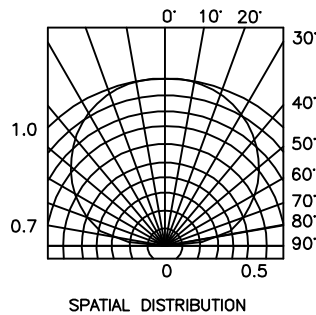
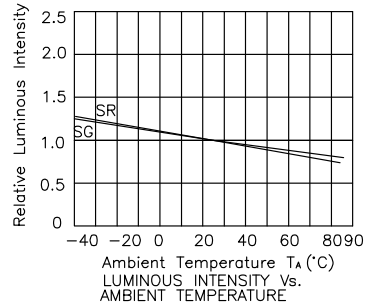
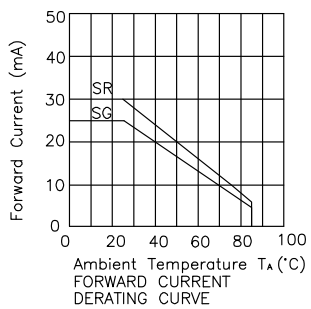
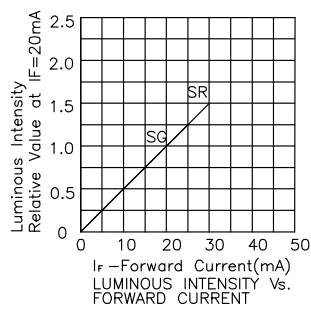
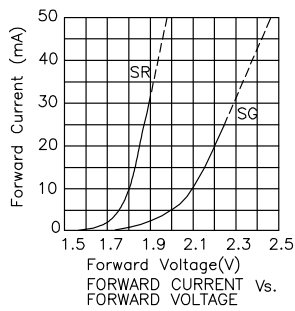
Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.



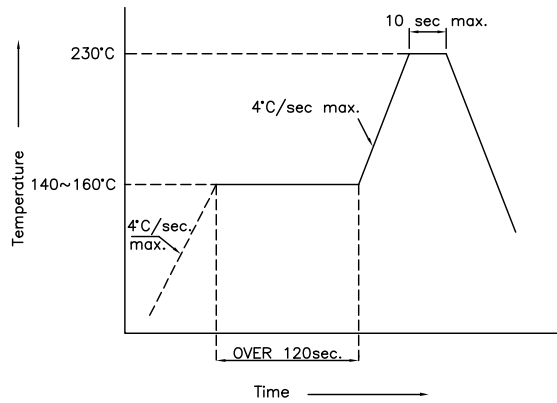
Super Bright Red /Super Bright Green

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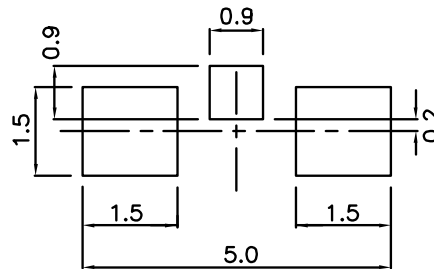


KPBA-3010SRSGC-PRV SMT Reflow Soldering Instructions

Number of reflow process shall be 2 times or less and cooling process to normal temperature is required between first and second soldering process.



Recommended Soldering Pattern (Units : mm)



Tape Specifications (Units : mm)

