

SUBMINIATURE SOLID STATE LAMP

Part Number: KM2520SRC08

Super Bright Red

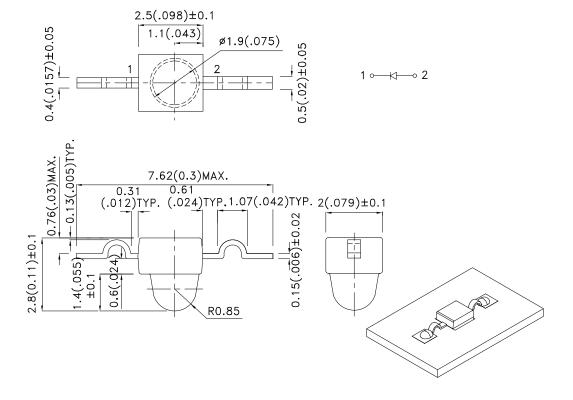
Features

- SUBMINIATURE PACKAGE.
- WIDE VIEWING ANGLE.
- YOKE LEAD.
- LONG LIFE SOLID STATE RELIABILITY.
- LOW PACKAGE PROFILE.
- MOISTURE SENSITIVITY LEVEL: LEVEL 3.
- PACKAGE: 1000PCS/REEL.
- RoHS COMPLIANT.

Description

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

Package Dimensions



Notes:

- All dimensions are in millimeters (inches).
 Tolerance is ±0.25(0.01") unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.
- 5. The device has a single mounting surface. The device must be mounted according to the specifications.





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Selection Guide

| Part No. | Dice | Lens Type | lv (mcd) [2] @ 20mA | | Viewing Angle [1] |
|-------------|---------------------------|-------------|------------------------|------|----------------------|
| | | 21 | Min. | Тур. | 201/2 |
| KM2520SRC08 | Super Bright Red (GaAlAs) | WATER CLEAR | 110 | 600 | 20° |

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline 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 | Super Bright Red | 660 | | nm | IF=20mA |
| λD [1] | Dominant Wavelength | Super Bright Red | 640 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Half-width | Super Bright Red | 20 | | nm | IF=20mA |
| С | Capacitance | Super Bright Red | 45 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage | Super Bright Red | 1.85 | 2.5 | V | IF=20mA |
| lr | Reverse Current | Super Bright Red | | 10 | uA | V _R =5V |

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

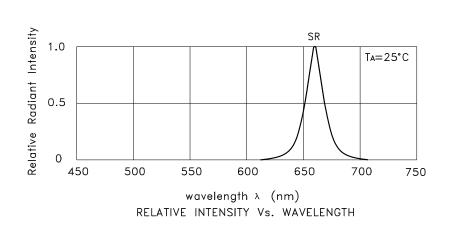
Absolute Maximum Ratings at TA=25°C

| Parameter | Super Bright Red | Units | |
|--------------------------|------------------|-------|--|
| Power dissipation | 75 | mW | |
| DC Forward Current | 30 | mA | |
| Peak Forward Current [1] | 155 | mA | |
| Reverse Voltage | 5 | V | |
| Operating Temperature | -40°C To +85°C | | |
| Storage Temperature | -40°C To +85°C | | |

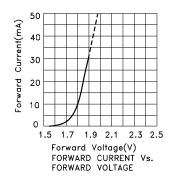
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

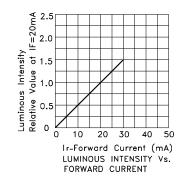
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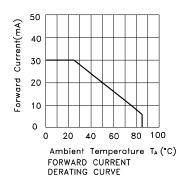
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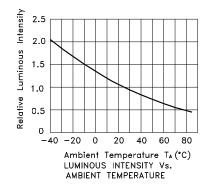


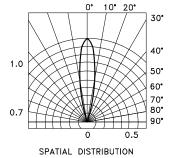
Super Bright Red KM2520SRC08











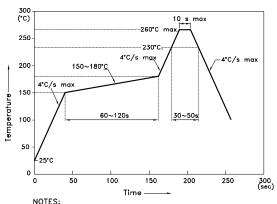
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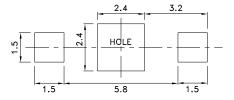
Reflow Soldering Profile For Lead-free SMT Process.



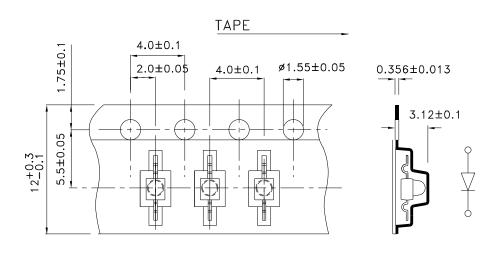
- NOTES:

 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
 3.Number of reflow process shall be 2 times or less.

Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Specifications (Units: mm)



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