

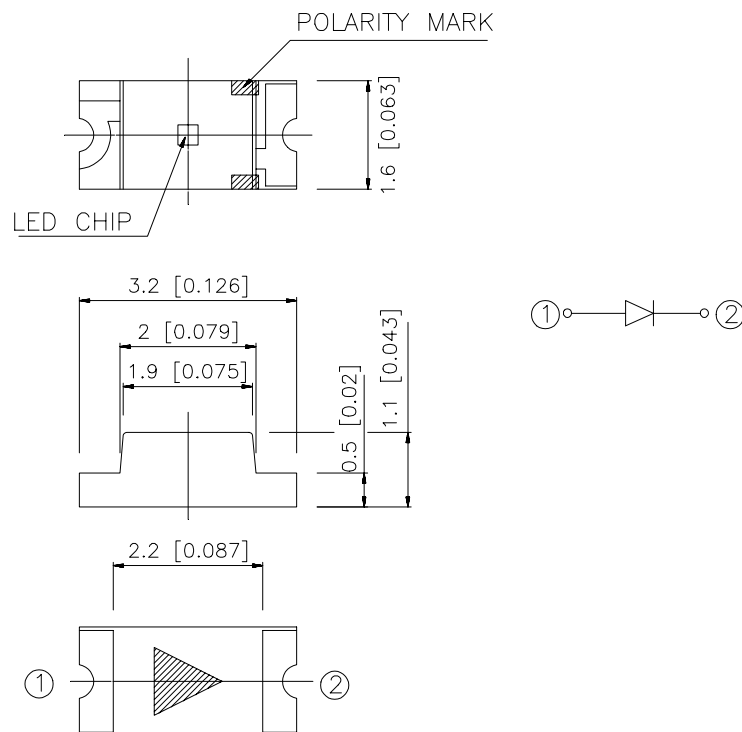
### Features

- 3.2mmx1.6mm SMT LED, 1.1mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS 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.

### Package Dimensions



### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.2$  (0.0079") unless otherwise noted.
3. Specifications are subject to change without notice.

## Selection Guide

| Part No.      | Dice                       | Lens Type   | Iv (mcd)<br>@ 20 mA |      | Viewing<br>Angle |
|---------------|----------------------------|-------------|---------------------|------|------------------|
|               |                            |             | Min.                | Typ. | 2θ1/2            |
| APC3216SRCPRV | SUPER BRIGHT RED (GaAlAs ) | WATER CLEAR | 36                  | 80   | 120°             |

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 T<sub>A</sub>=25°C

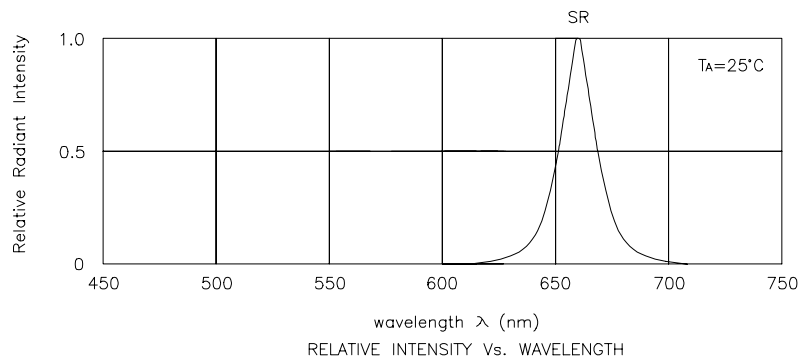
| Symbol            | Parameter                | Device           | Typ. | Max. | Units | Test Conditions            |
|-------------------|--------------------------|------------------|------|------|-------|----------------------------|
| λ <sub>peak</sub> | Peak Wavelength          | Super Bright Red | 660  |      | nm    | I <sub>F</sub> =20mA       |
| λ <sub>D</sub>    | Dominate Wavelength      | Super Bright Red | 640  |      | nm    | I <sub>F</sub> =20mA       |
| Δλ <sub>1/2</sub> | Spectral Line Half-width | Super Bright Red | 20   |      | nm    | I <sub>F</sub> =20mA       |
| C                 | Capacitance              | Super Bright Red | 45   |      | pF    | V <sub>F</sub> = 0V;f=1MHz |
| V <sub>F</sub>    | Forward Voltage          | Super Bright Red | 1.85 | 2.5  | V     | I <sub>F</sub> =20mA       |
| I <sub>R</sub>    | Reverse Current          | Super Bright Red |      | 10   | μA    | V <sub>R</sub> = 5V        |

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

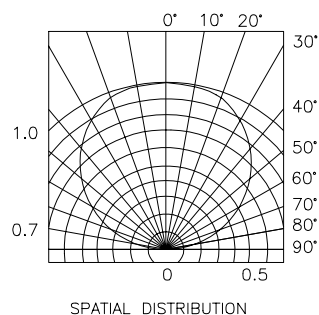
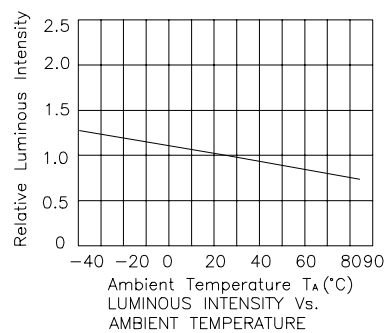
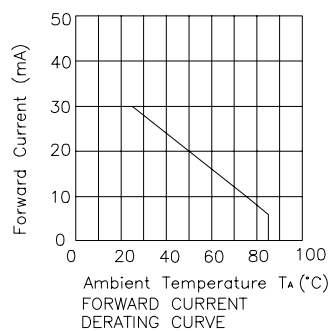
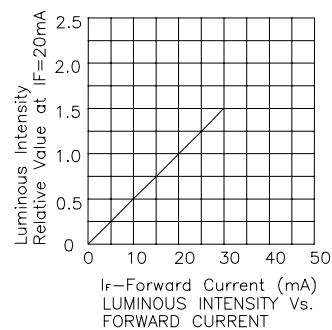
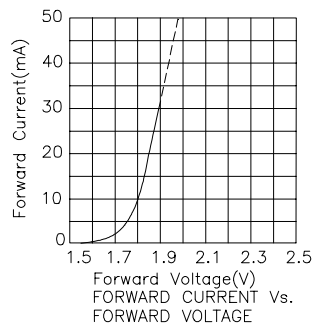
| Parameter                     | Super Bright Red | Units |
|-------------------------------|------------------|-------|
| Power dissipation             | 100              | mW    |
| DC Forward Current            | 30               | mA    |
| Peak Forward Current [1]      | 155              | mA 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

Note:

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



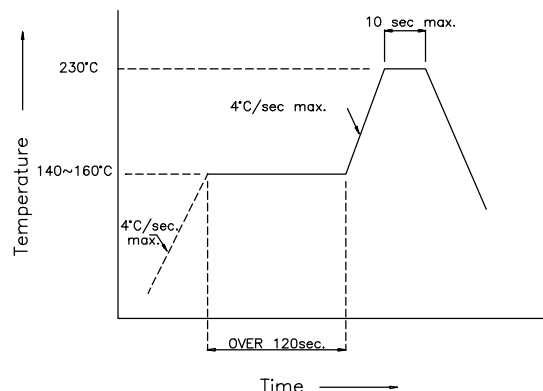
## Super Bright Red APC3216SRCPRV



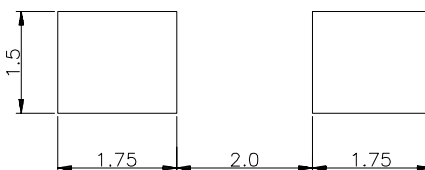
## APC3216SRCPRV

### SMT Reflow Soldering Instructions

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



### Recommended Soldering Pattern (Units : mm)



### Tape Specifications (Units : mm)

