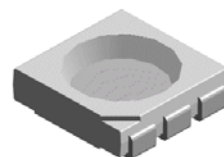


5.0 x 5.0mm Package SMT Warm White LED

VR K1A9.525

Description

The constructive of this series of LEDs are different from the PCB type SMD LED. The lead-frame is of metal, reflector is made of thermoplastic and construct into this unique type of SMD LED. Such construction is very suitable to be used in high demanding reliability applications such as in-car dashboard or telecommunications.



Features

- High reliability LED package
- Available in full selection of colors
- Luminous and color categorized for each reel.
- Super wide viewing at 120°



Electronic Optical Characteristics (at 20mA per chip x 3):

| Part Number | Emitted Color | CCx | CCy | Lens Color | mcd | | View Angle (201/2) | VF(per chip) | |
|-------------|---------------|------|------|----------------|------|------|--------------------|---------------|------|
| | | | | | Min. | Max. | | Min. | Max. |
| VR K1A9.525 | Warm White | 0.38 | 0.40 | Yellow Diffuse | 4500 | 7100 | 120 | 3.0 | 4.0 |

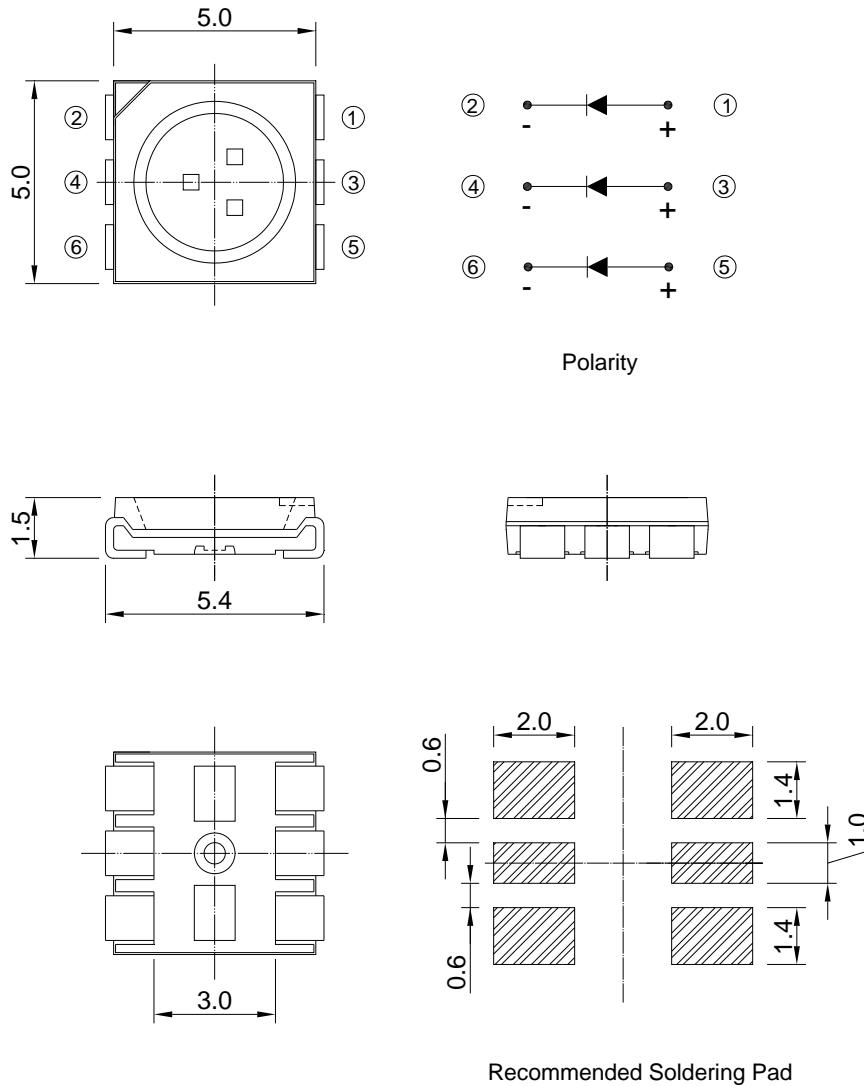
Absolute Maximum Ratings (at Ta=25°C per chip)

| Emitted Color | P _D (mW) | I _F (mA) | ESD(V) | I _R (uA) @VR=5V | Topr (°C) | Tstg (°C) |
|---------------|---------------------|---------------------|--------|----------------------------|-----------|-----------|
| Warm White | 120 | 30 | 1000 | 50 | -40~+85 | -40~+90 |

Note: Please take note the Absolute Maximum Rating values. Any operation beyond the specified ratings in this table will result degradation of LED life-span and may cause LED to fail.

Package Dimension:

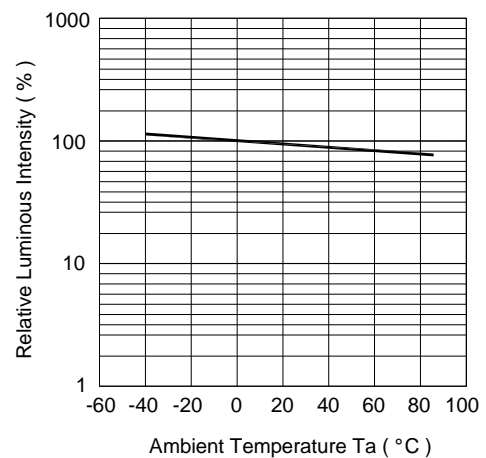
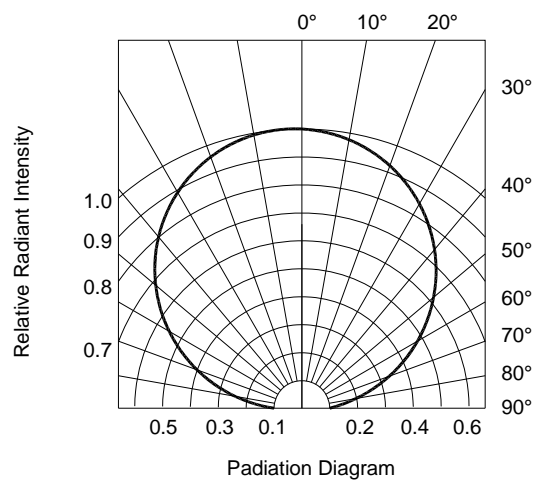
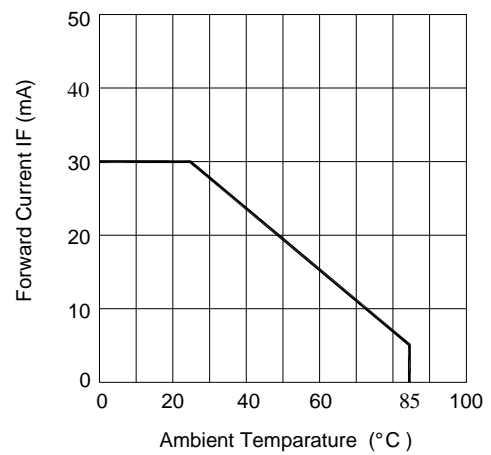
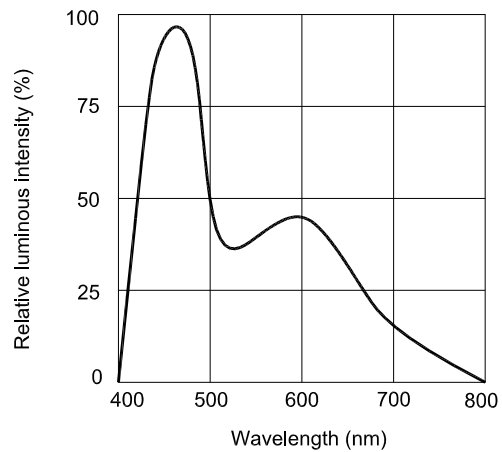
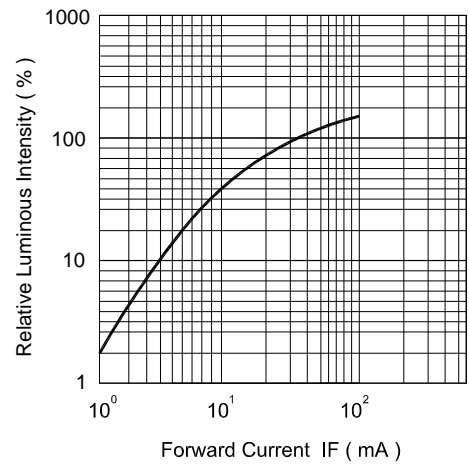
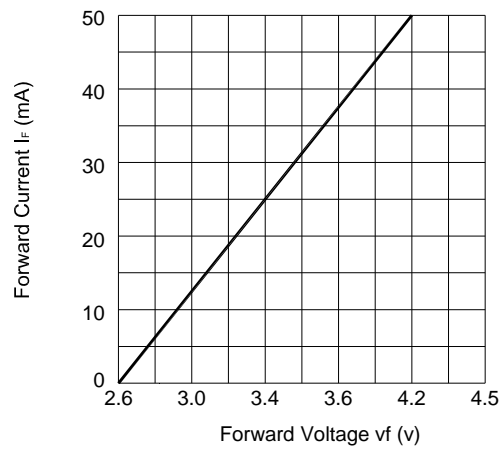
unit:mm



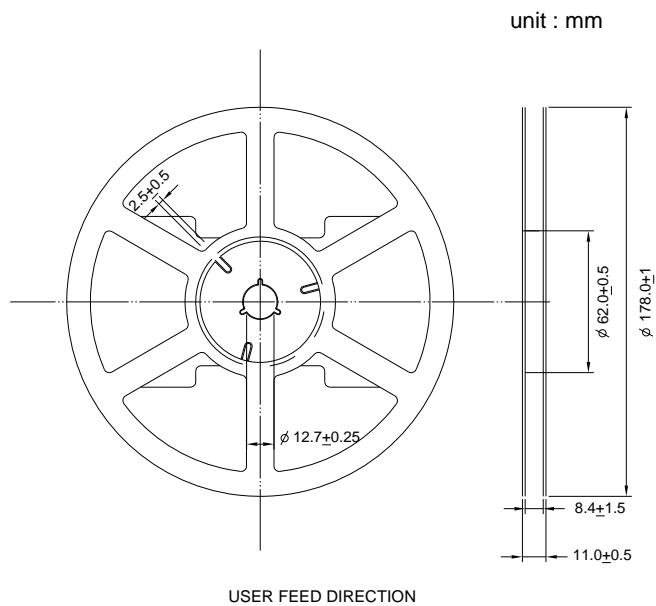
Notes:

1. All dimensions are millimeters.
2. Tolerance is $\pm 0.2\text{mm}$ unless otherwise specified.
3. Specifications are subject to change without notice.

Optical Characteristics Curves

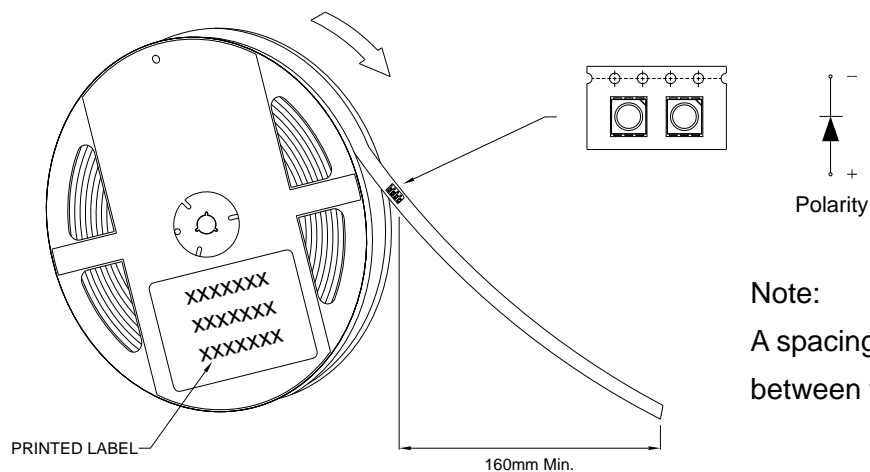


Reel Dimension:



Note:

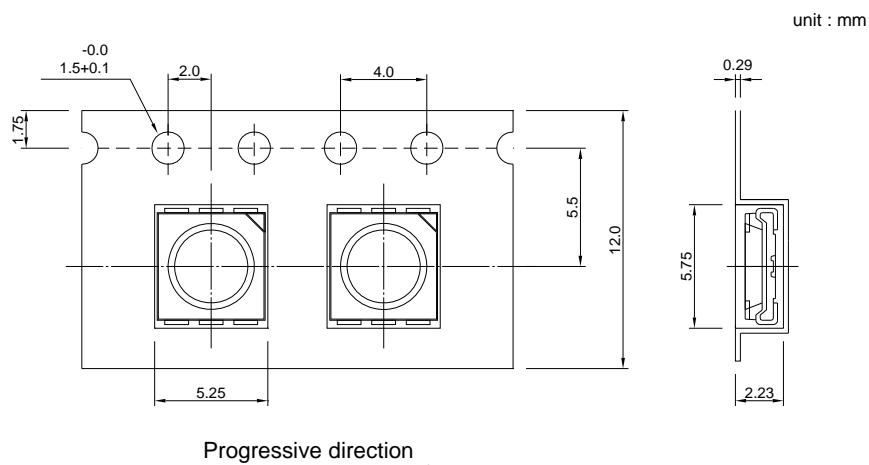
Available in 12mm carrier tape on 330mm diameter reels. (1000 pieces)



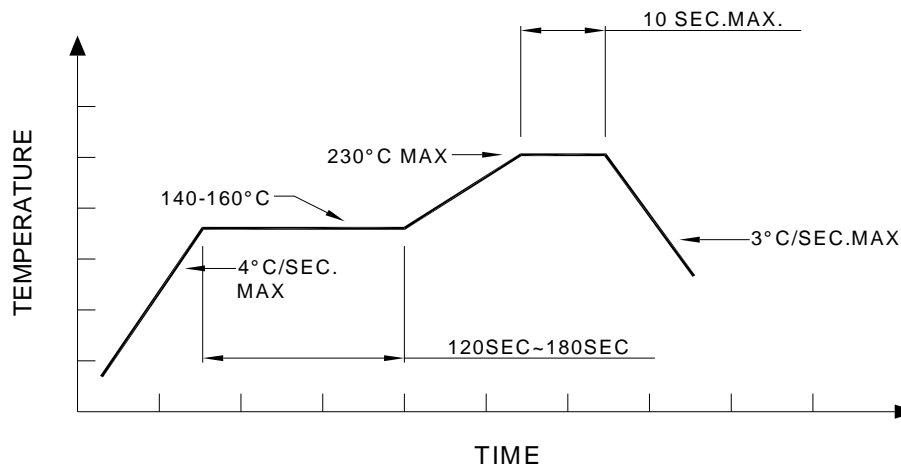
Note:

A spacing of approximately 160mm between the front edge of tape

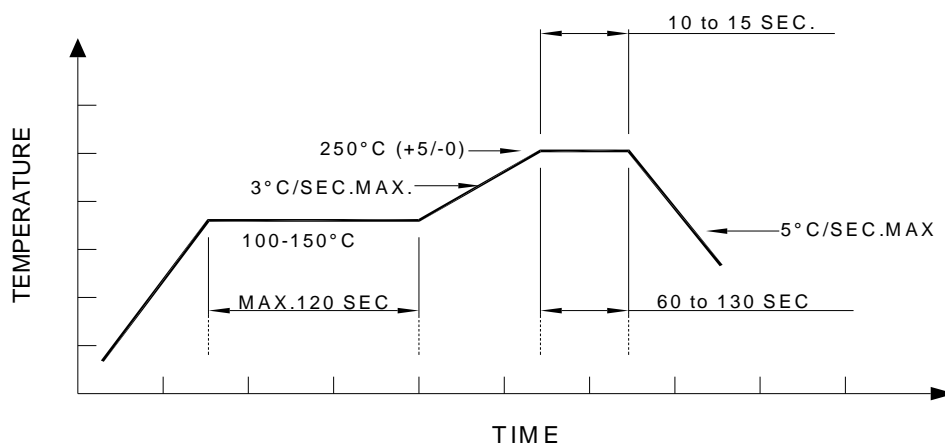
Tape Dimension:



Recommended re-flow soldering profile:



Recommended Pb-free re-flow soldering profile:



Note:

All the specifications listed in this data sheet are suitable for general electronic equipment, office equipment and communication devices. Kindly consult Sales Representatives for specific reliabilities request, Forward Voltage, Luminous Intensity, Wavelength, Radiant Power or Viewing Angle.