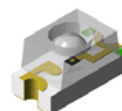


## 1206 SMD LED 60 Degree View Angle

**VS 6678**

### Description

This lens construction of this series is different from other Flat type of SMD LED. Within the lens itself, there is an additional lens construction for better focusing of light output. Thus, increase the luminous intensity. Red, Yellow and Green emitting colors are made of high efficiency AlGaInP materials. All above carrying high luminosity under low current condition characteristics.




### Applications

- Industrial control systems signal indicator
- Automotive features
- Front panel indicator
- Status indication



### Electronic Optical Characteristics (at 20mA):

| Part Number | Emitted Color  | $\lambda$ (nm) |             | Lens Color | Iv(mcd) |      | View Angle | VF(V) |      |
|-------------|--|----------------|-------------|------------|---------|------|------------|-------|------|
|             |  | $\lambda_d$    | $\lambda_p$ |            | Min.    | Typ. |            | Typ.  | Max. |
| VS 6678     | Yellow  | 589            | 591         | Clear      | 56      | 110  | 60         | 2.0   | 2.4  |

### Absolute Maximum Ratings (at Ta=25°C)

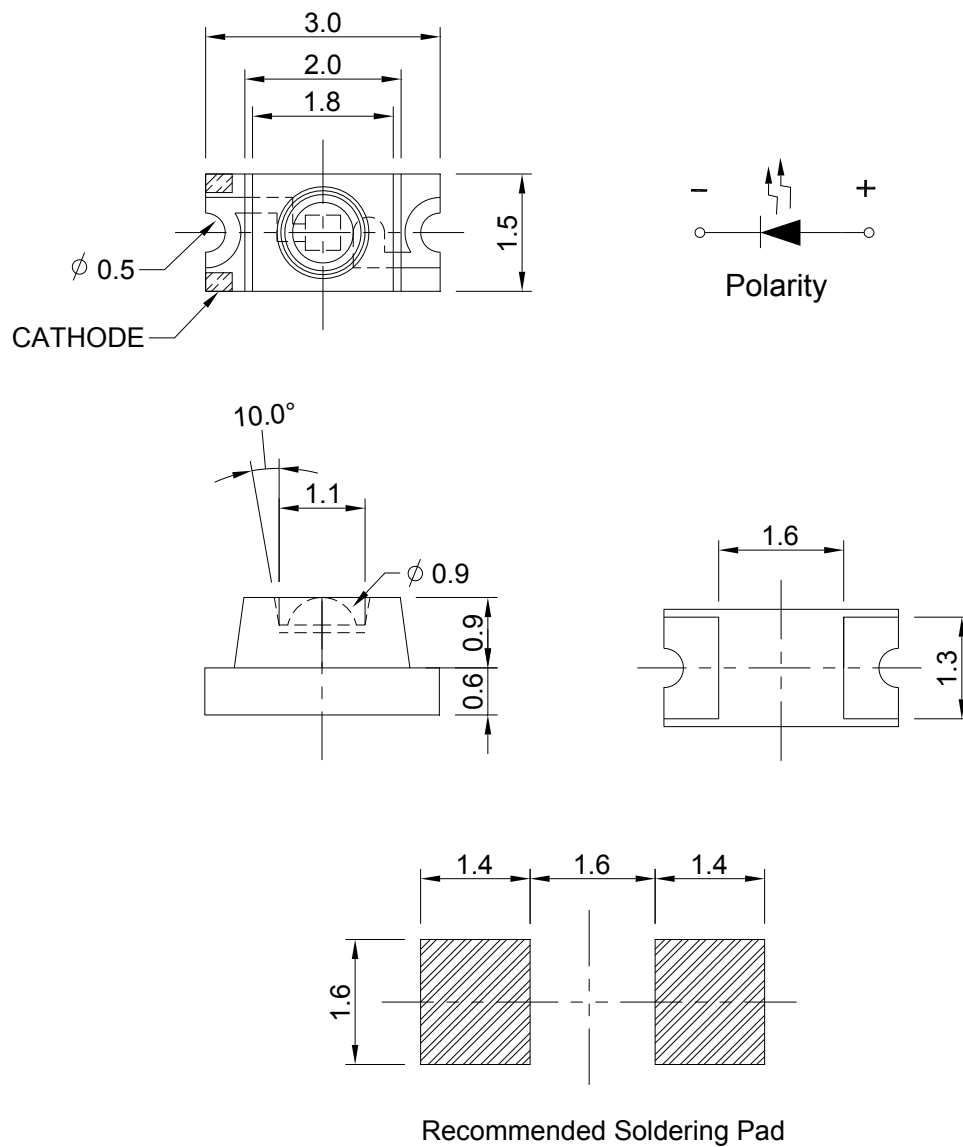
| P <sub>D</sub> (mW) | I <sub>FP</sub> (mA) | I <sub>F</sub> (mA) | Iron Solder (°C)   | I <sub>R</sub> (uA)@V <sub>R</sub> =5V | T <sub>opr</sub> (°C) | T <sub>stg</sub> (°C) |
|---------------------|----------------------|---------------------|--------------------|--|-----------------------|-----------------------|
| 60                  | 100*                 | 25                  | 350 ± 5 for 3 sec. | 10                                     | -40~+85               | -40~+100              |

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

\* I<sub>FP</sub>: Peak Forward Current under 1/10 duty, 1KHz condition

## Package Dimension:

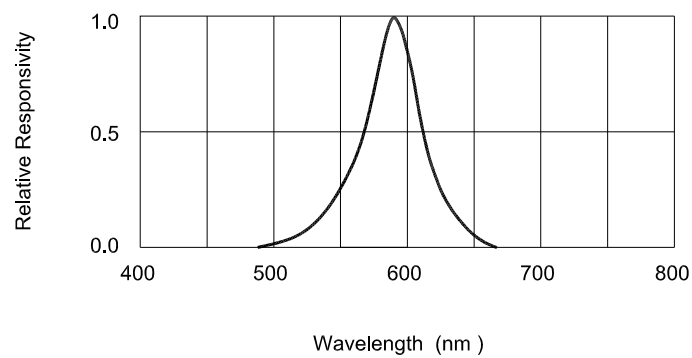
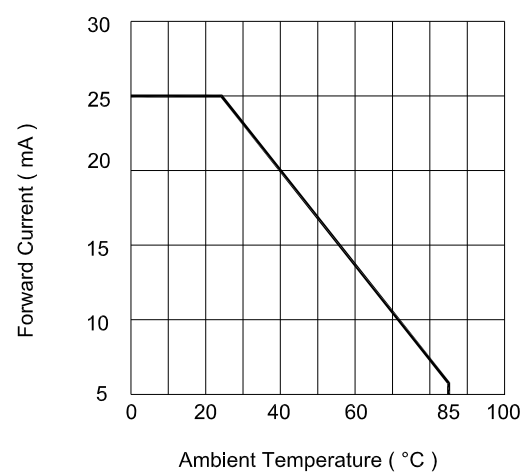
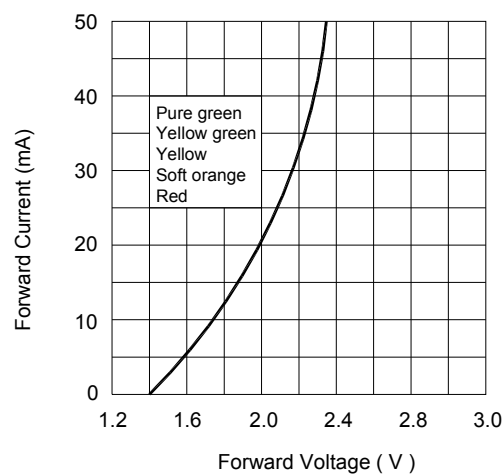
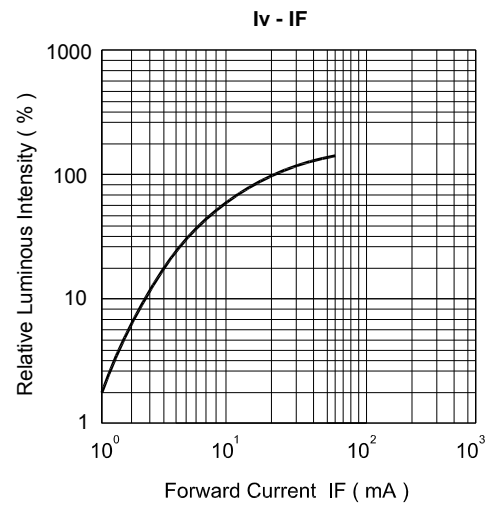
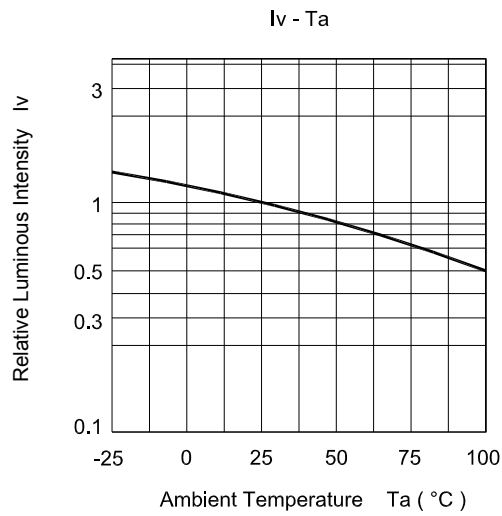
unit:mm



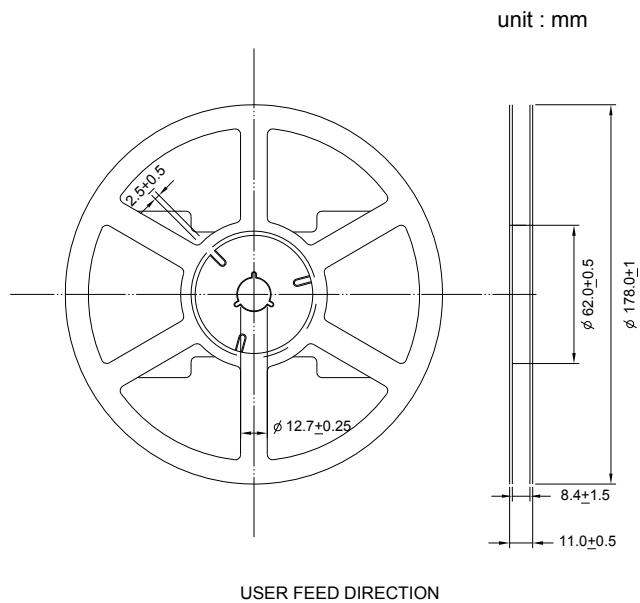
## Notes:

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

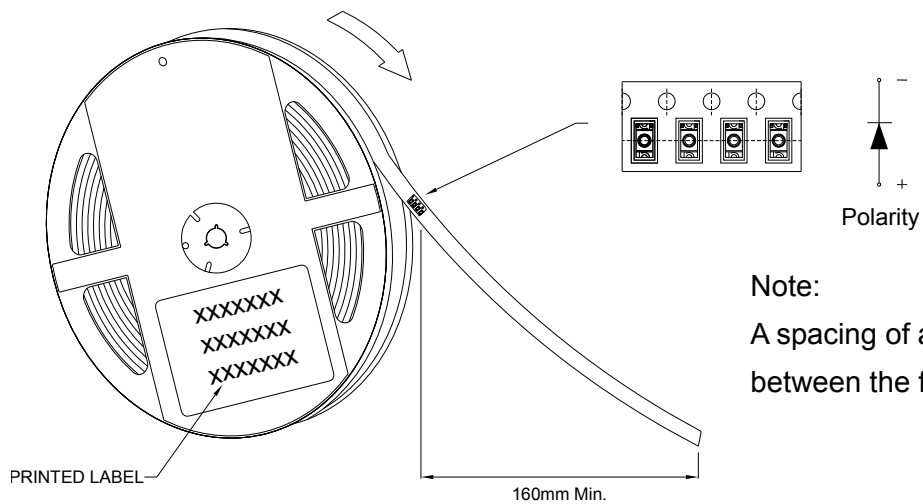


## Reel Dimension:



### Note:

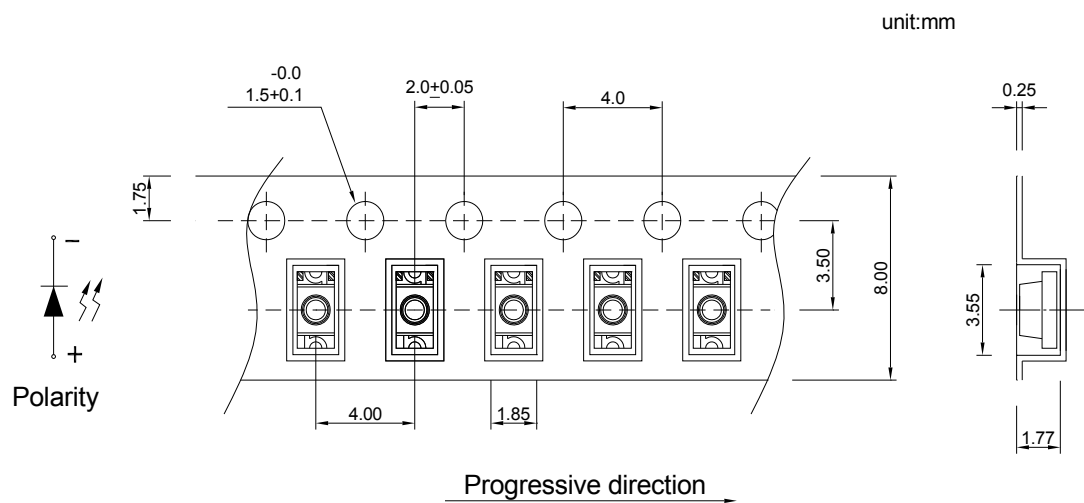
Available in 8mm carrier tape on 178mm diameter reels. (3,000 pieces)



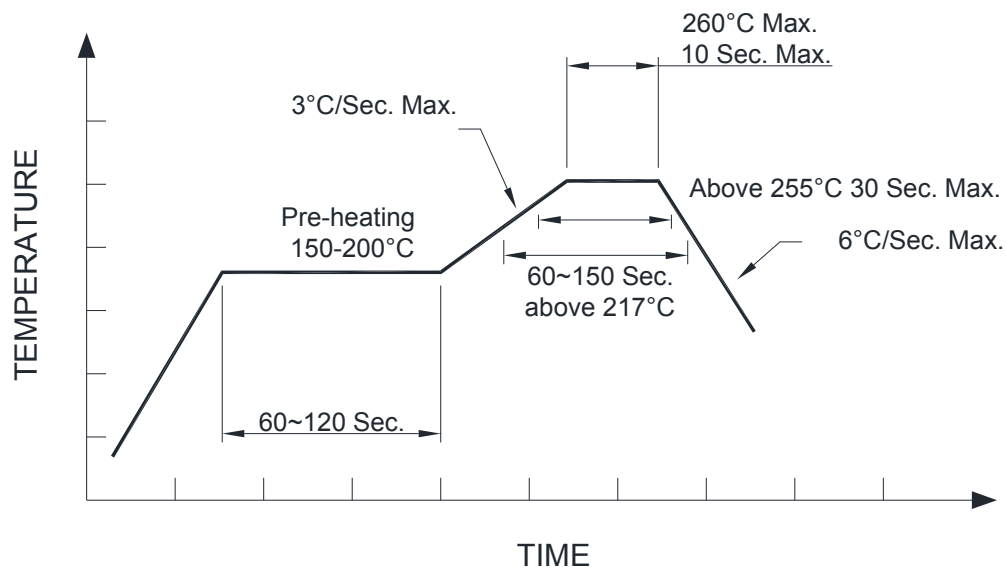
### Note:

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

## Tape Dimension:



# 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.