

# 'Z Bend' Lead Subminiature SMD LED

## **VL K528**

### **Description**

This series of leaded SMD LED is also known as Subminiature LED. There are 'Gull Wing', 'Yoke Bend' and 'Z Bend' type of lead forming but straight lead is available as well. The dice used in this series (Red /Geen / Yellow is AlGaInP rather than the conventional GaP and GaAsP/GaP. The advantages of AlGaInP are low power consumption and obtaining high luminous intensity under low current driving condition.



### **Applications**

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





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

| Part Number | Emitted Color | λ (nm) |     | Lens  | lv(mcd) |      | View Angle | VF(V) |      |
|-------------|---------------|--------|-----|-------|---------|------|------------|-------|------|
|             | Emitted Color | λd     | λр  | Color | Min.    | Тур. | (201/2)    | Тур.  | Max. |
| VL K528     | Green         | 573    | 575 | Clear | 280     | 340  | 25         | 2.0   | 2.4  |

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

| P <sub>D</sub> (mW) | IFP(mA) | IF(mA) | Solder Temp(℃)     | IR(uA)@V <sub>R=</sub> 5V | Topr(℃) | Tstg(℃)  |
|---------------------|---------|--------|--------------------|---------------------------|---------|----------|
| 60                  | 100*    | 25     | 260 ± 5 for 5 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.

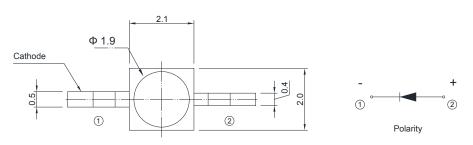
\*IFP: Peak Forward Current under 1/10 duty, 1KHz condition

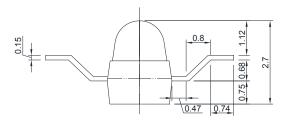
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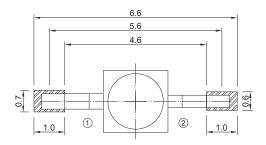


## **Package Dimension:**

unit: mm







Recommend Soldering Pad

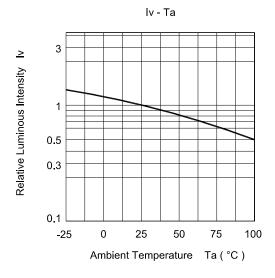
### Notes:

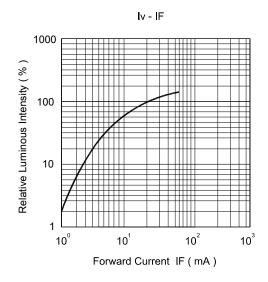
- 1. All dimensions are millimeters.
- 2. Tolerance is ± 0.2mm unless otherwise specified.
- 3. Specifications are subject to change without notice.

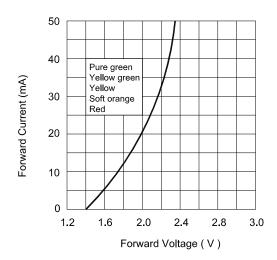
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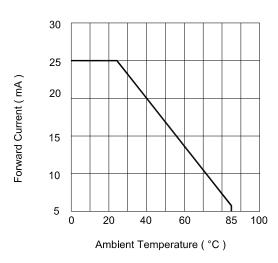


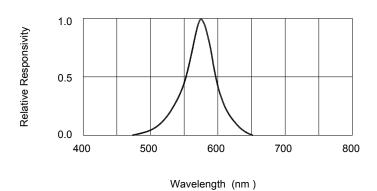
## **Optical Characteristics Curves**







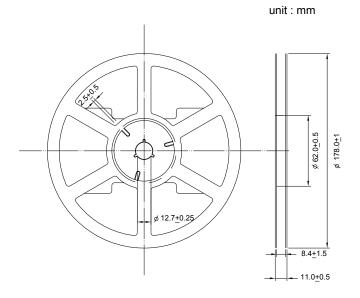




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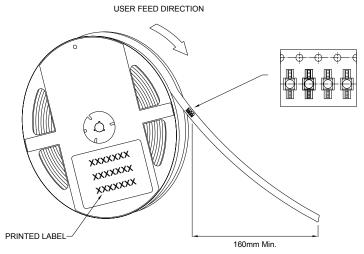


### **Reel Dimension:**



### Note:

Available in 8mm carrier tape on 178mm diameter reels. (1,000 pieces)

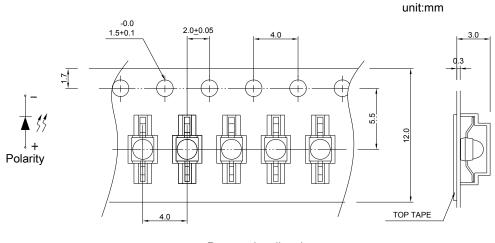


### Note:

Polarity

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

## **Tape Dimension:**

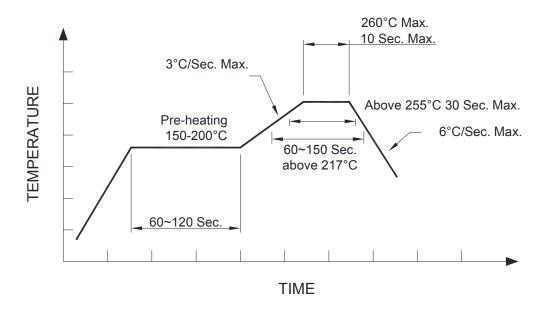


Progressive direction

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### 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.

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