

### 'Yoke Bend' Lead Subminiature LED

### **VL B728**

#### **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 is AlGalnP rather than the conventional GaP and GaAsP/GaP. The advantages of AlGalnP 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):**

Dart Number	Emitted Color		λ (nm)		Lens	lv(mcd)		View Angle	VF(V)	
Part Number			λd	λр	Color	Min.	Тур.	(201/2)	Тур.	Max.
VL B728	Red		624	632	Clear	180	485	25	2.0	2.4

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

P <sub>D</sub> (mW)	IFP(mA)	IF(mA)	Iron Solder (℃)	IR(uA)@V <sub>R=</sub> 5V	Topr(℃)	Tstg(℃)	
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.

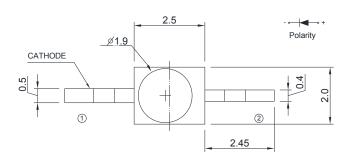
\*IFP: Peak Forward Current under 1/10 duty, 1KHz condition

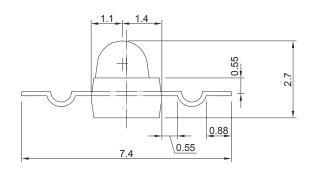
Version:3.0 Spec: VL B728 Page 1 of 5

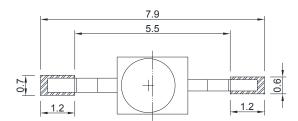


### **Package Dimension:**

unit : mm







Recommended Soldering Pad

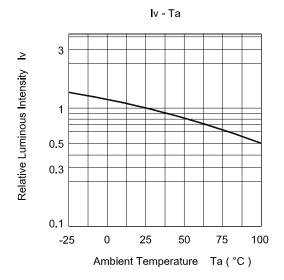
### Notes:

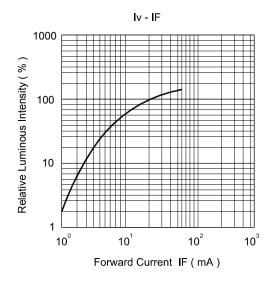
- 1. All dimensions are millimeters.
- 2. Tolerance is ± 0.2mm unless otherwise specified.
- 3. Specifications are subject to change without notice.

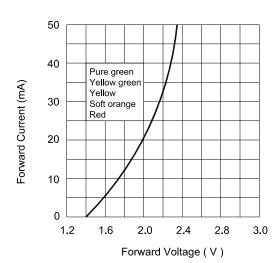
Version:3.0 Spec: VL B728 Page 2 of 5

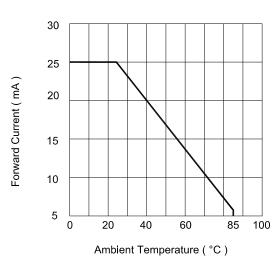


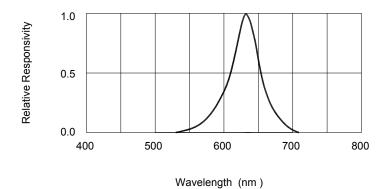
## **Optical Characteristics Curves**







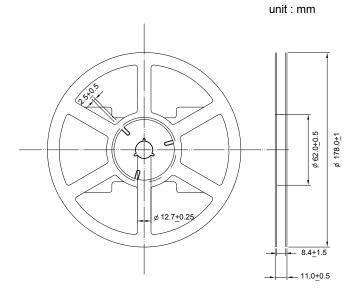




Version: 3.0 Spec: VL B728 Page 3 of 5

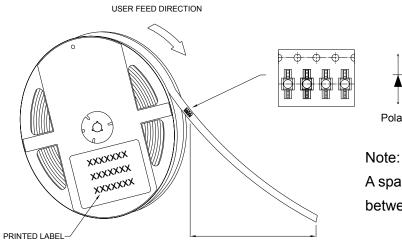


#### **Reel Dimension:**



### Note:

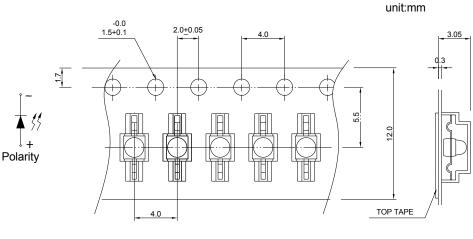
Available in 8mm carrier tape on 178mm diameter reels. (1,000 pieces)



# Polarity

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

### **Tape Dimension:**



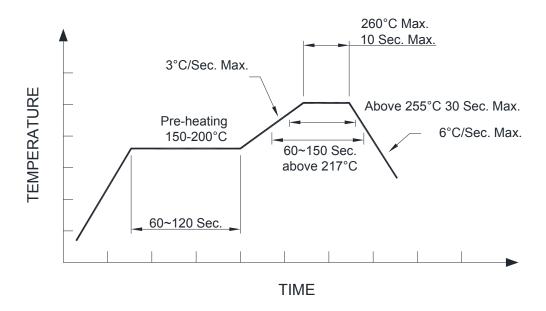
160mm Min.

Progressive direction

Version:3.0 Spec: VL B728 Page 4 of 5



### 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.

Version:3.0 Spec: VL B728 Page 5 of 5