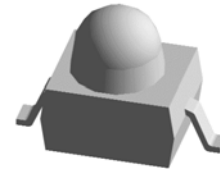


## 'Gull Wing' Lead Subminiature LED

### VL A828

#### Description

This series of leaded SMT LEDs is also known as Subminiature LED. There are 'Gull Wing', 'Yoke Bend' and 'Z Bend' type of lead forming but straight lead are available as well. The dice used in this series ( Red /Green / 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 (@ 20mA):

Part Number	Emitted Color	$\lambda$ (nm)		Lens Color	Iv(mcd)		View Angle (2 $\theta$ 1/2)	VF(V)	
		$\lambda$ d	$\lambda$ p		Min.	Typ.		Typ.	Max.
VL A828	Yellow-orange 	605	611	Clear	450	710	25	2.0	2.4

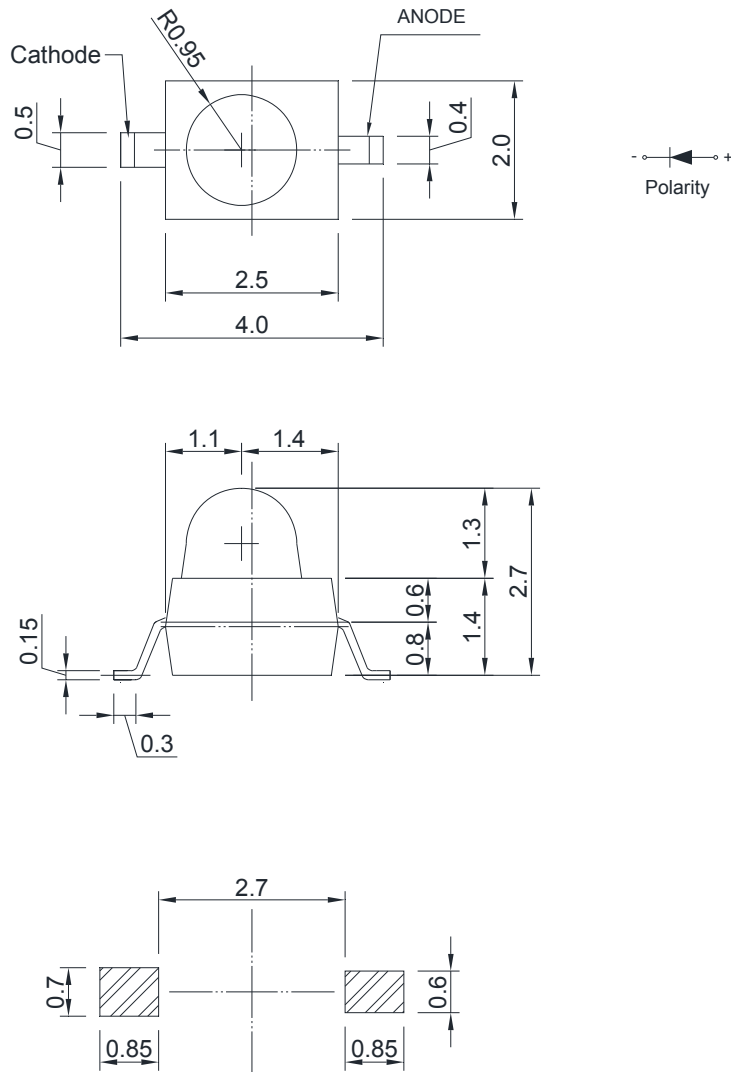
#### Absolute Maximum Ratings (@ Ta=25 °C)

P <sub>D</sub> (mW)	I <sub>FP</sub> (mA)	I <sub>F</sub> (mA)	T <sub>sol</sub> (°C)	I <sub>R</sub> ( $\mu$ A)@V <sub>R</sub> =5V	T <sub>opr</sub> (°C)	T <sub>stg</sub> (°C)
60	100*	25	260 $\pm$ 5 for 5 sec.	10	-40~+85	-40~+100

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

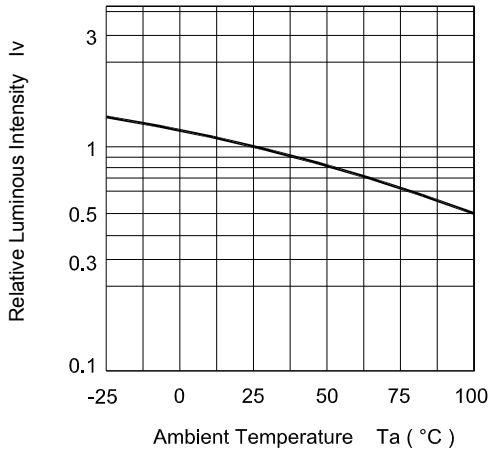


**Notes:**

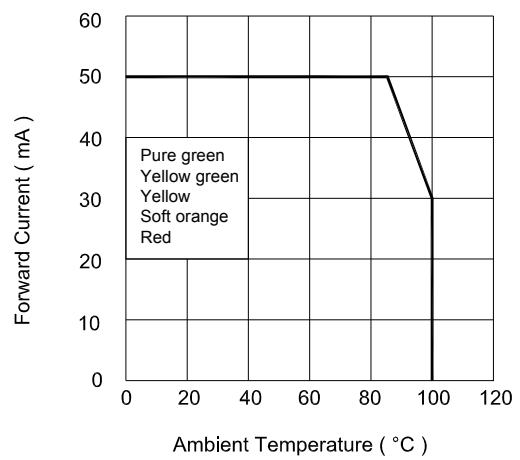
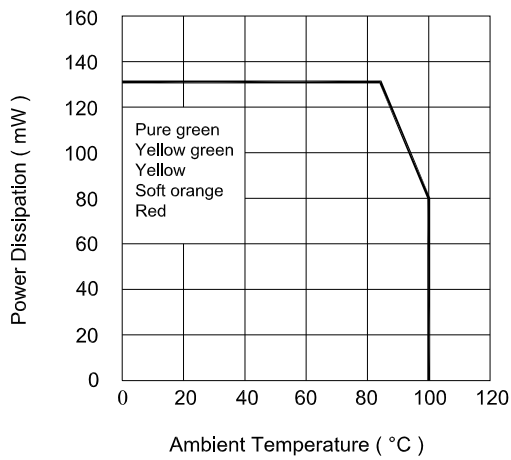
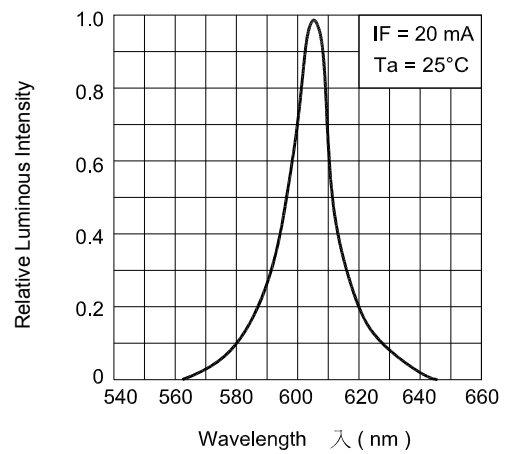
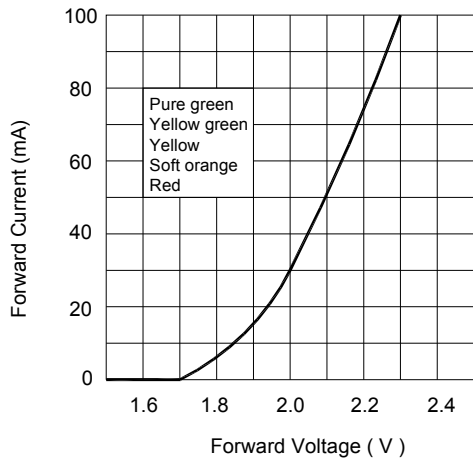
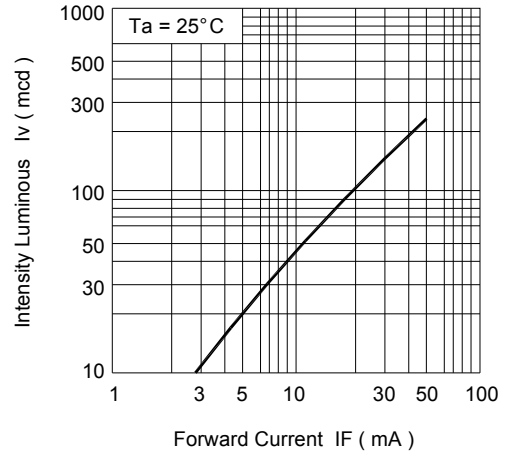
1. All dimensions are millimeters.
2. Tolerance is  $\pm 0.2$ mm unless otherwise specified.
3. Specifications are subject to change without notice.

### Optical Characteristics Curves

Iv - Ta

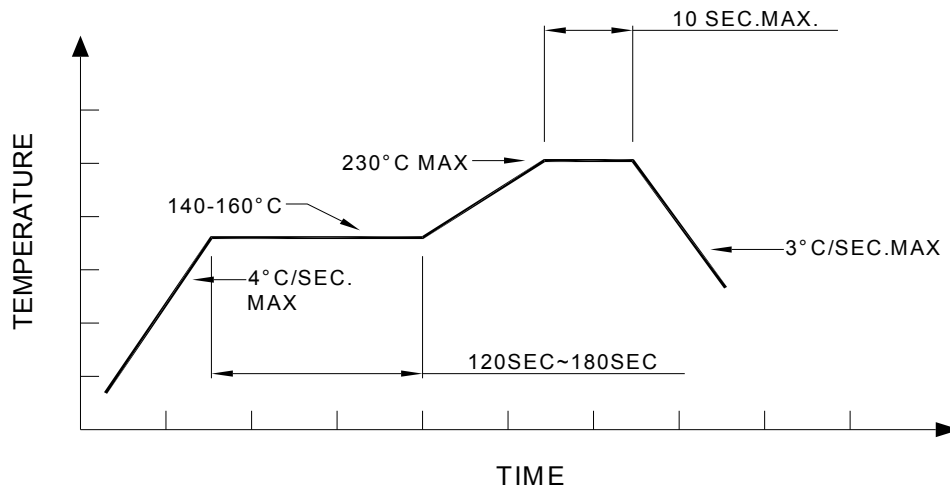


Iv - IF

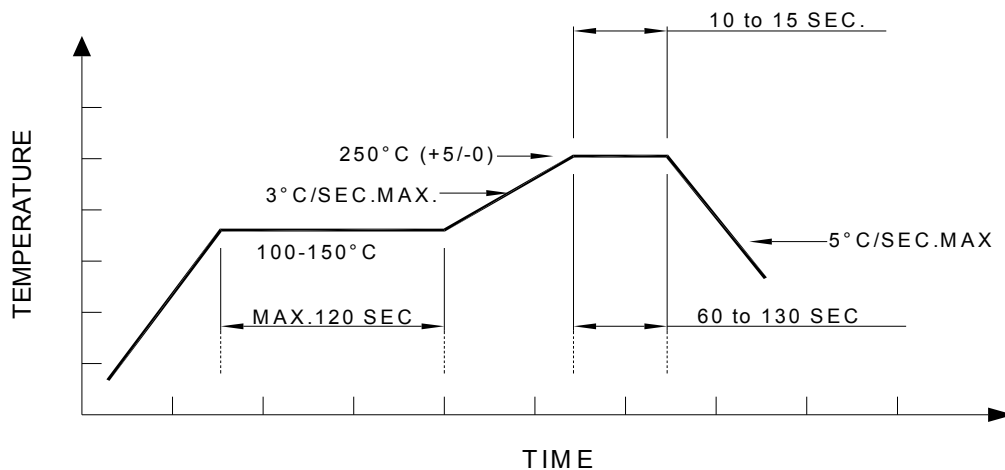




**Recommended re-flow soldering profile:**



**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.