

## Features

- Compatible with automatic placement equipment
- Compatible with infrared and vapor phase reflow solder process
- Mono-color type
- Pb-free



## Descriptions

- The 0805 SMD LED is much smaller than lead frame type components thus enable smaller board size, higher packing density, reduced storage space and finally smaller equipment to be obtained
- Besides, lightweight makes them ideal for miniature applications.etc

## Usage Notes:

- Surge will damage the LED
- When using LED, it must use a protective resistor in series with DC current about 20mA

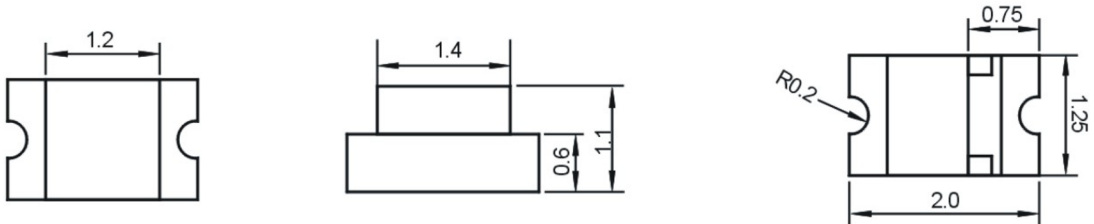
## Applications

- Automotive: Backlighting in dashboard and switch
- Telecommunication: Indicator and backlighting in telephone and fax
- Flat backlight for LCD, switch and symbol
- General use

## Device Selection Guide

	Chip		Lens Color
	Material	Emitted Color	
	InGaN	Warm White	Water clear

## Package Dimensions



UNIT:mm

## Notes:

- Other dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Protruded resin under flange is 1.5mm Max LED.
- Bare copper alloy is exposed at tie-bar portion after cutting.

### Absolute Maximum Rating (T<sub>a</sub>=25°C)

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	I <sub>FPM</sub>	70	mA
Forward Current	I <sub>FM</sub>	30	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	140	mW
Operating Temperature	T <sub>opr</sub>	-40~+80	°C
Storage Temperature	T <sub>stg</sub>	-40~+100	°C
Soldering Heat (5s)	T <sub>sol</sub>	260	°C

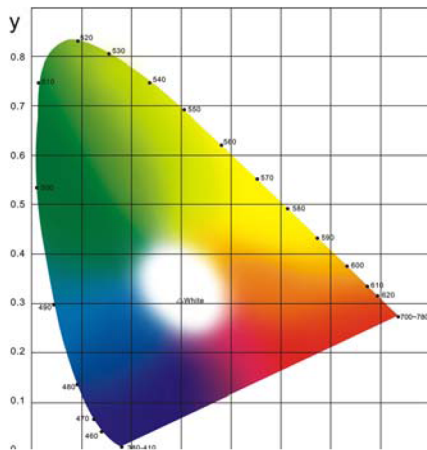
### Electro-Optical Characteristics (T<sub>a</sub>=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I <sub>V</sub>	350	---	560	mcd	IF=20mA(Note 1)
Viewing Angle	2θ <sub>1/2</sub>	---	120	---	Deg	(Note 2)
Peak Emission Wavelength	λ <sub>p</sub>	---	---	---	nm	IF=20mA
Spectral Line Half-Width	Δλ	25	30	35	nm	IF=20mA
Forward Voltage	V <sub>F</sub>	2.9	---	3.5	V	IF=20mA
Reverse Current	I <sub>R</sub>	---	---	10	μA	VR=5V

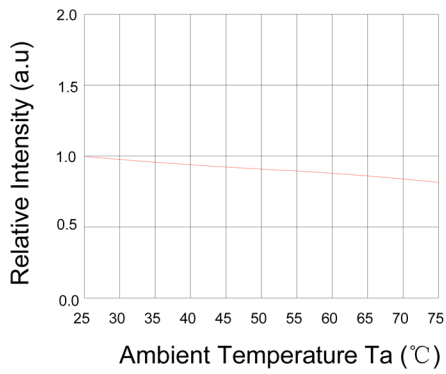
#### Note:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ<sub>1/2</sub> is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

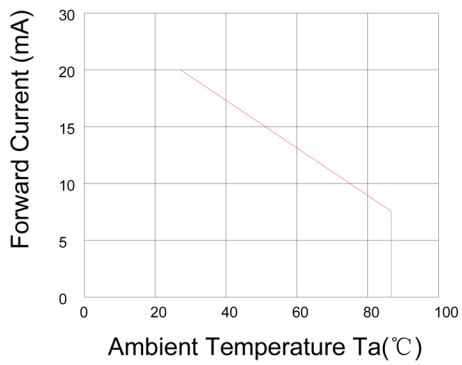
# Typical Electro-Optical Characteristics Curves



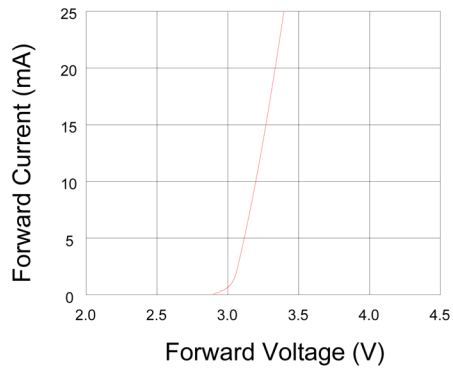
Relative Intensity VS. Ambient Temp



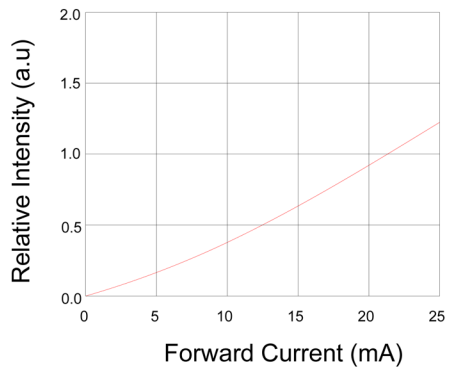
Forward Current VS.Ambient Temp.



Forward Current VS.Forward Voltage



Forward Current VS.Relative Intensity



Radiation Characteristics

