# 1206 SMD Chip LED

# multicomp PRO

## RoHS Compliant

### **Specifications**

Dice material	: AlGaInP/GaAs
Emmiting Colour	: Hyper Red
Lens colour	: Water clear
Viewing angle	: 140°
Dominant Wavelength	: 628nm
Luminous Intensity	: 290mcd

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

Parameter	Symbol	Rating	Unit
Power Dissipation	PD	85	mW
Forward current	lf	25	mA
Reverse Voltage	Vr	5	V
Peak Pulsing Current	lfp	100	mA
Operating Temperature	Тор	-40 to +85	°C
Storage Temperature	Tstg.	-40 to +100	°C
Peak Current (1/10Duty Cycle,0.1ms Pulse Width.)	lf (peak)	100	mA
Lead Soldering Temperature. (1.6mm from seating plane)	Tsol.	Reflow Soldering : 260°C for 3 sec. Hand Soldering: 350°C for 3 sec.	
Electrostatic Discharge	ESD	2000	V

### **Electrical and Optical Characteristics**

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Intensity	lv	lf=20mA	200		290	mcd
Forward Voltage	Vf	lf=20mA	1.8		2.4	V
Dominant Wavelength	λd	lf=20mA	618		628	nm
Reverse Current	lr	Vr=5V			5	μA
Viewing Angle	201/2	lf=20mA		140		deg
Spectrum Line Halfwidth	Δλ	lf=20mA		15		nm

Notes:

1. Tolerance of Luminous Intensity is ±15%

2. Tolerance of Forward Voltage is ±0.1V

3. Tolerance of Dominant Wavelength is ±1nm

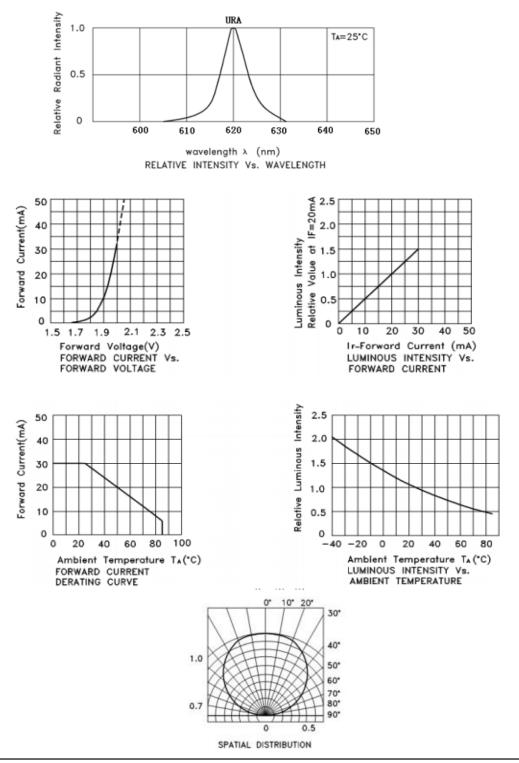
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Typical Electrical/Optical Characteristic Curves

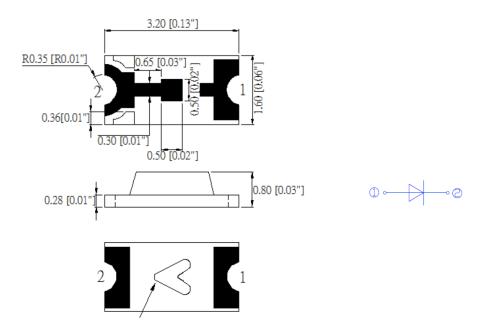
(25°C Ambient Temperature Unless Otherwise Noted)



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Tolerance is ±0.1mm unless otherwise noted.

**Dimensions : Millimetres** 

#### Precautions in use:

#### Storage

Dimensions

It is recommended to store the products in the following conditions:

- 1. Do not open the moisture proof bag before ready to use the LEDs
- 2. The LEDs should be kept at 30°C or less and 60%RH or less before opening the package. The max. storage period before opening the package is 1 year.
- 3. After opening the package, the LEDs should be kept at 30°C/40%RH or less, and it should be used within 7 days
- 4. If the LEDs require baking, bake at: 60±5oC for 24 hours

#### Hand Soldering

The temperature of the iron should be lower than 300oC and soldering within 3sec per solder-pad is to be observed. Avoid using organic solvent.

Recommend ultrasonic method 300W Max.

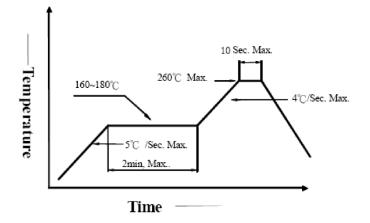
#### Cleaning

Surface condition of this device may change when organic solvents such as trichloroethylene or acetone are applied.

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### **Reflow Temp/Time**



#### Notes:

 Reflow soldering should not be done more than two times.
Do not put stress on the LEDs when soldering.

### **Reflow Soldering Pad Dimensions**



### Part Number Table

Description	Part Number
Chip LED, Hyper Red, 628nm, 140°, 290mcd, Surface Mount	MP008256

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