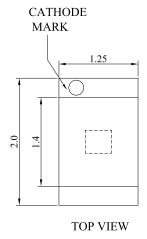
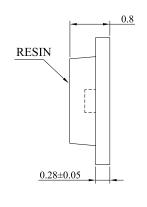
# **SMD Chip LED**

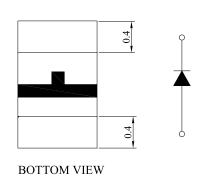


#### Package Dimensions:









All dimensions are in mm Tolerance: ±0.1mm

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

Parameter	Symbol	Rating	Unit	
Power Dissipation	Po	78	°C	
Reverse Voltage	VR	5	V	
D.C. Forward Current	If	30	mA	
Pulsed Forward Current (1 / 10 Duty Cycle, 0.1ms Pulse Width)	If (Peak)	80	mA	
Operating Temperature Range	Topr.	-40 to +80	°C	
Storage Temperature Range	Tstg.	-40 to +85	°C	
Soldering Temperature	Tsld.	Reflow Soldering: 260°C for 10sec.		

#### **Electrical & Optical Characteristics: Hyper Red**

•						
Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Intensity	lv	If = 20mA	-	11	-	mcd
Forward Voltage	Vf	If = 20mA	-	2.1	2.6	V
Peak Wavelength	λр	If = 20mA	-	635	-	nm
Dominant Wavelength	λd	If = 20mA	-	626	-	nm
Reverse Current	lr	Vr = 5V	-	-	100	μΑ
Viewing Angle	2θ 1/2	If = 20mA	-	140	-	deg
Spectrum Line Halfwidth	Δλ	If = 20mA	-	35	-	nm

Note: 1. The data is tested by an IS tester

2. Customer's special requirements are also welcome.

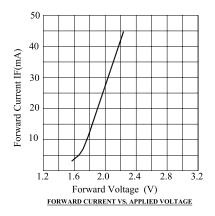


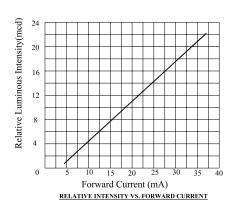
# **SMD Chip LED**

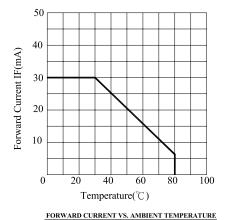


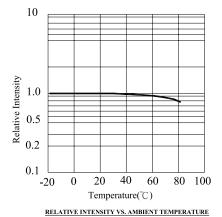
### **Typical Electrical & Optical Characteristics Curves:**

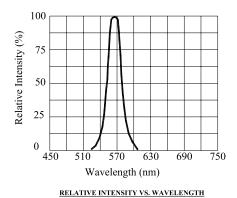
(25°C Ambient temperature unless otherwise noted)

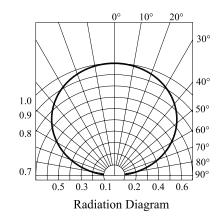












## **SMD Chip LED**



#### **Recommended Storage Environment:**

- Temperature: 5°C to 30°C (41°F to 86°F)
- · Humidity: 60% RH Max.
- Use within 7 days after opening of sealed vapour/ESD barrier bags

If moisture absorbent material (silica gel) has faded away or LEDs have exceeded the storage time, baking treatment should be performed using the following conditions:

- Baking Treatment: 60 ± 5°C for 24 hours
- · Fold the opened bag firmly and keep in dry environment

#### **Reflow Soldering**

Recommended use of upper and lower heater type reflow furnace.

- · 260°C max for up to 10 seconds, one time only
- · Pre-heat is 150°C max for up to 2 minutes max
- In case of screen-printing, keep metal mask thickness between 0.2mm and 0.3mm

#### Cleaning

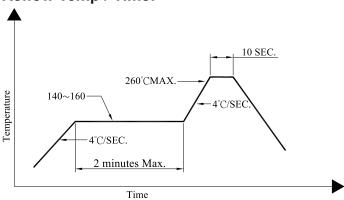
Surface condition of this device may change when organic solvents such as trichloroethylene or acetone were applied.

- · Avoid using organic solvent
- · Recommend ultrasonic method 300W max.

#### **Packaging**

- · EIA-481A standard package
- In 8mm tape on 4,000pcs diameter reels sealed in vapour/ESD barrier bags

#### Reflow Temp / Time:



#### **Part Number Table**

LED Chip		Lens Colour	Part Number	
Material	Emitting Colour	Lens Colour	Part Number	
GaAsP / GaP	Orange	White diffused	703-0106	

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