

### RoHS Compliant



#### **Features**

- 5mm Rounded LED Lamps
- Low power consumption
- · Excellent product quality and reliability
- · Lead-free device

### **Applications**

- · Electronic signs and signals
- · Bright ambient lighting conditions
- Backlight
- · General purpose indicatiors

Device Selection G	Buide		
Part No.	Ch	Chip	
MP008551	Material	Emitted color	
	AlGaInP	Red	White Diffused
	InGaN	Green	- White Dillused
	AlGalnP	Amber	

Absolute Maximum Ratings: (T <sub>A</sub> = 25°C)					
Downwoodow	Symbol		Value		
Parameter	Symbol	Red	Green	Amber	Unit
Power Dissipation	PD	50	120		mW
Forward Current	lF		30		mA
Peak Forward Current*1	IFP		100		mA
Reverse Voltage	VR		5		V
Operating Temperature	Topr		-40 to +85		°C
Storage Temperature	Тѕтс		-40 to +85		°C
Soldering Temperature*2	Tsoı		260°C For 5 Seconds		

#### Notes:

- \*1: Pulse width≤0.1ms, Duty cycle≤1/10
- \*2:  $\Delta$ At the position of 3mm below package base.
- \*3: ▲ Plese refer to the curve of forward current vs.temperature



### **Round LED**

### 5mm, Red/Green/Amber



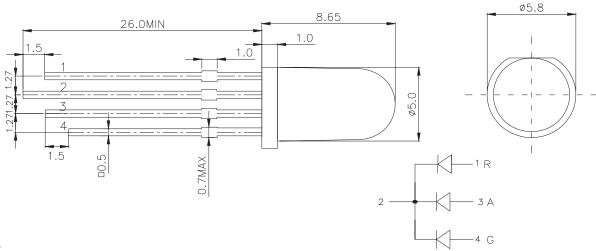
Electrical / Optical Characterisitics at T <sub>A</sub> = 25°C							
Parameter		Symbol	Min.	Тур.	Max	Unit	Test Conditions
	Red	VF		2	_	V	
Forward Voltage	Green	VF		2.8	_	V	IF=20mA
	Amber	VF		2	_	V	
Reverse Current	Red	lr		_	10	μΑ	
	Green	lr		_	10	μA	VR=5V
	Amber	lr		_	10	μA	
Peak Wavelength	Red	λd	_	622	_	nm	
	Green	λd		522	_	nm	
	Amber	λd		601	_	nm	
Luminous Intensity	Red	lv		320	_	mcd	
	Green	lv		2000	_	mcd	
	Amber	lv		500	_	mcd	
Power Angle		201/2		_	_	Deg.	

#### Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or dominant wavelength), the typical accuracy of the sorting process is as follows:

- 1. Dominant Wavelength: +/-1nm
- 2. Chromatic Coordinates: +/-0.01
- 3. Luminous Intensity: +/-15%
- 4. Forward Voltage: +/-0.1V

### **Dimensions**



### Notes:

- 1. Tolerance is ±0.25 unless otherwise noted.
- 2. Lead spacing is measured where the leads emerge from the package.
- 3. Specifications are subject to change without notice.
- 4. The design and working current for LED is not less than 2mA.

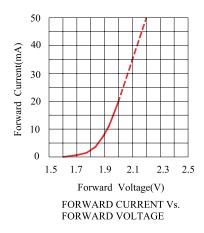
Dimensions: Millimetres

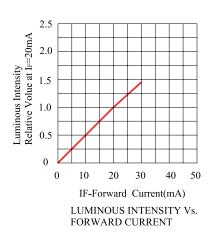


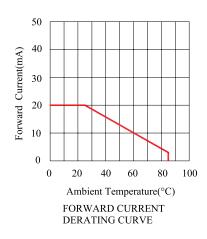


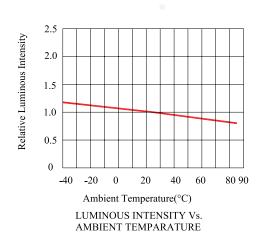
### Typical Electrical/Optical Characteristics Curves

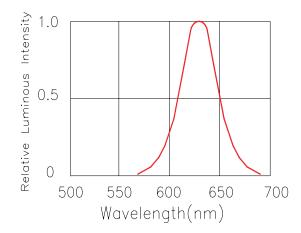
### Red







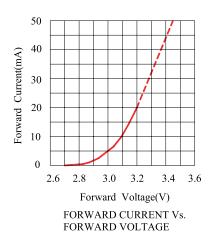


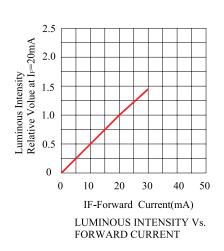


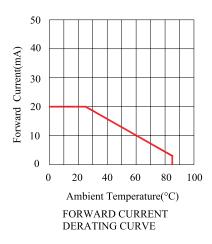


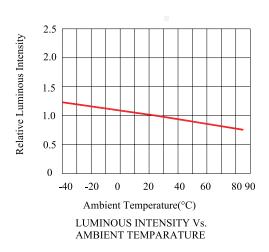
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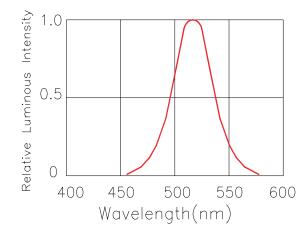
### Green





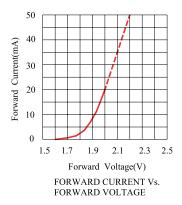


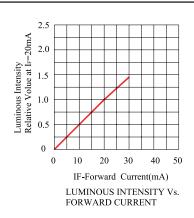


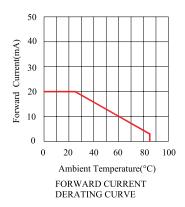


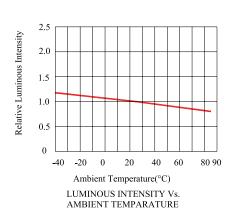
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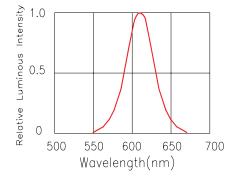
### Green











### **Part Number Table**

Description	Part Number
Round LED, Red/Green/Amber, 622nm/522nm/601nm, 320mcd/2000mcd/500mcd, Through hole	MP008551

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