Round LED 3mm, Red/Blue

multicomp PRO

RoHS Compliant



Features

- Low power consumption
- · Excellent product quality and reliability
- · I,c. compatible
- Lead-free device

Applications

- · Status indicators
- · Commercial use
- · Backlights
- Advertising Signs

Device Selection Guide						
Part No.	CI	Chip				
MP008534	Material	Emitted color	M/leite Differen			
	AlGalnP	Red	White Diffuse			
	INGaN	Blue				

Absolute Maximum Ratings: (T _A = 25°C)					
Parameter	Symbol	Va	lue	Unit	
Farameter		Red	Blue	Onit	
Power Dissipation	Po	50	120	mW	
Forward Current	lF	30		mA	
Peak Forward Current ^{*1}	I FP	1	00	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

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^{*2: 1.66}mm below package base.

Round LED

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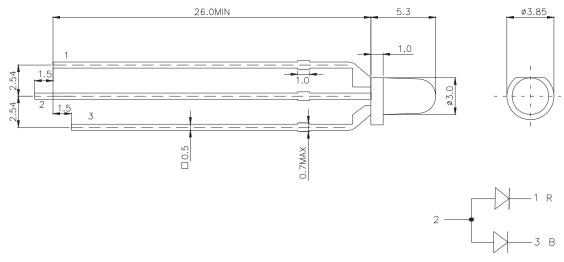
Electrical / Optical Characterisitics at T _A = 25°C							
Parameter		Symbol	Min.	Тур.	Max	Unit	Test Conditions
Forward Voltage	Red	VF		2	_	V	IF=20mA
	Blue	VF		3	_	V	
Luminous Intensity	Red	lR		_	10	μΑ	VR=5V
	Blue	lR		_	10	μΑ	
Dominant Wavelength	Red	λd		625		nm	
	Blue	λd		470		nm	
Peak Wavelength	Red	λP] —	635]	nm	
	Blue	λP		465		nm	
Spectral line Half-width	Red	Δλ		20	_	nm	IF=20mA
	Blue	Δλ		25		nm	
Luminous Intensity	Red	I۷		1500		mcd	
	Blue	lv		600		mcd	
Power Angle		201/2		60		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
- 5. The design and working Current for LED is not less than 2mA.

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.

Dimensions : Millimetres

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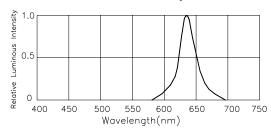


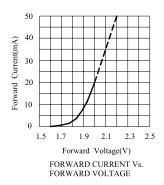
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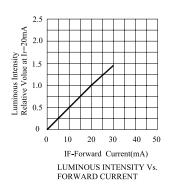


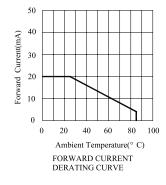
Typical Electrical/Optical Characteristics Curves (Ta=25°C Unless Otherwise Noted)

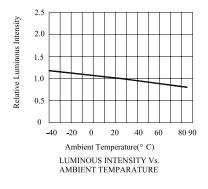
Red

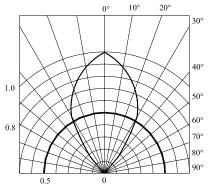










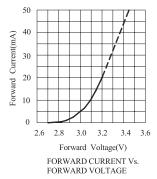


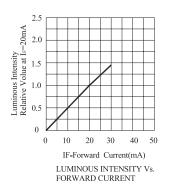
SPATIAL DISTRIBUTION

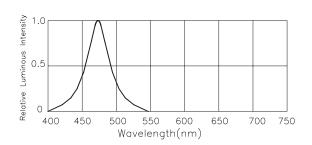
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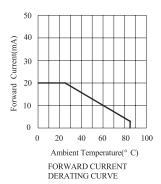


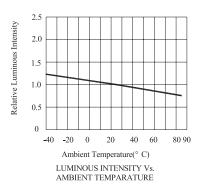
Blue

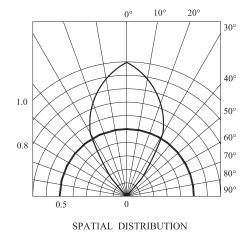












Part Number Table

Description	Part Number
Round LED, Red/Blue, 635nm/465nm, 60°,1500mcd/600mcd, Through hole	MP008534

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