multicomp PRO

RoHS Compliant



Features

- 3mm 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 Guide						
Part No.	Cr	Lens color				
	Material	Emitted color				
MP008535	InGaN	Red	White Diffused			
	GaAsP	Blue				

Absolute Maximum Ratings: (T _A = 25°C)						
Parameter	Symbol	Va	lue	Unit		
Parameter		Red	Blue	Offic		
Power Dissipation	PD	50	120	mW		
Forward Current	lF	2	20	mA		
Peak Forward Current*1	IFP	1	00	mA		
Reverse Voltage	VR		5	V		
Operating Temperature	Topr	-40 t	o +85	°C		
Storage Temperature	Тѕтс	-40 t	o +85	°C		
Soldering Temperature ^{*2}	Tsoı		260°C For 5 Seconds			

Notes

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





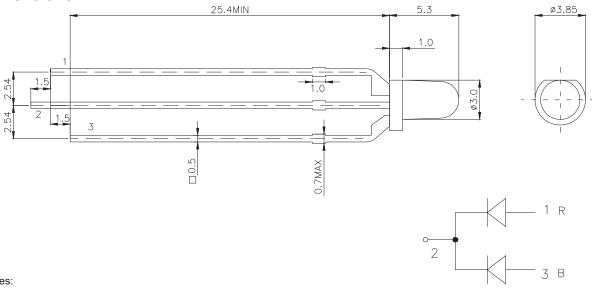
Electrical / Optical Characterisitics at T _A = 25°C							
Parameter		Symbol	Min.	Тур.	Max	Unit	Test Conditions
Forward Voltage	Red	VF	1.8	2	2.6	V	- IF=20mA
	Blue	VF	2.8	3	3.6	V	
Luminous Intensity	Red	lr		_	10	μΑ	VR=5V
	Blue	lr		_	10	μΑ	
Dominant Wavelength	Red	λd	620	622	630	nm	
	Blue	λd	464	468	474	nm]
Peak Wavelength	Red	λP	_	630	_	nm	
	Blue	λP	_	465	_	nm]
Spectral line Half-width	Red	Δλ		20	_	nm	IF=20mA
	Blue	Δλ	_	21	_	nm	
Luminous Intensity	Red	lv	110	370		mcd	
	Blue	lv	250	480	_	mcd	
Power Angle		2θ1/2	_		_	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%

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

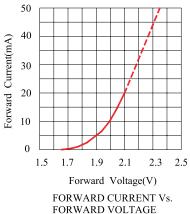


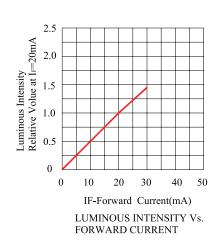


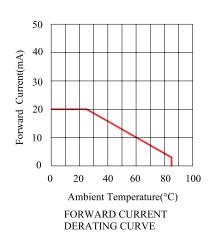
Typical Electrical/Optical Characteristics Curves

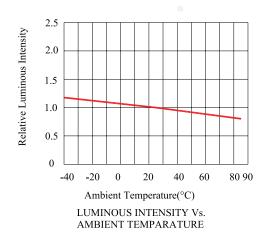
(Ta=25°C Unless Otherwise Noted)

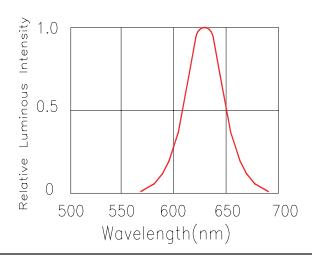
Red







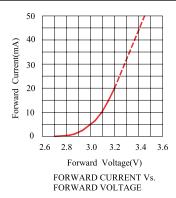


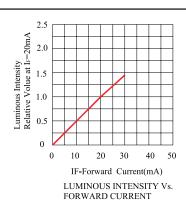


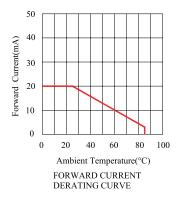


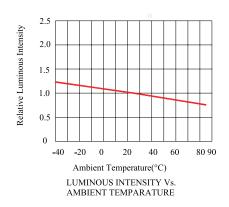
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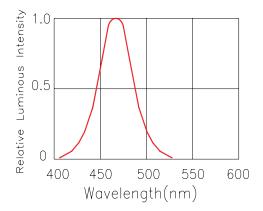
Blue











Part Number Table

Description	Part Number
Round LED, Red/Blue, 630nm/465nm, 370mcd/480mcd, Through hole	MP008535

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