

FULL COLOR LED LAMPS

Model No. LEF-C5003D

Description:

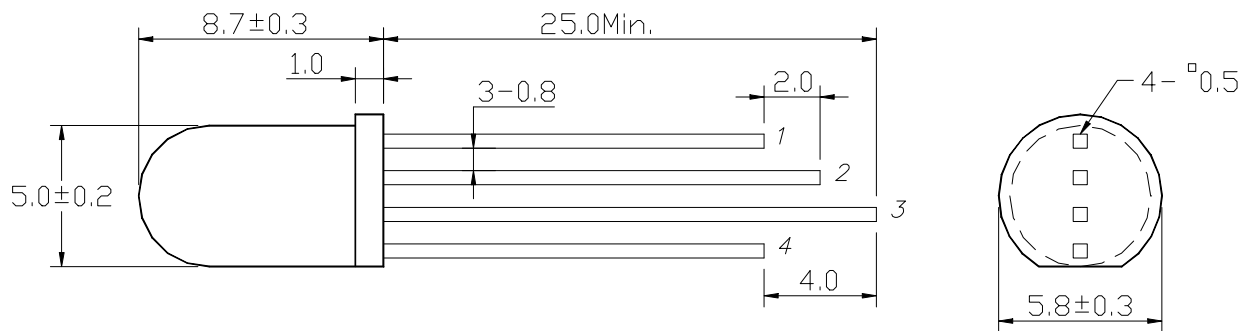
- Super bright LED Lamp
- Full Color
- Round type
- T1-3/4 (5mm)diameter
- 4 pin
- With Flange
- Solder leads without stand-off
- Package : bulk

Features :

- High Luminous intensity
- Technology : AlGaInP / GaN / GaN
- Peak wavelength $\lambda_p = 630 / 528 / 472$ nm
- Common Cathode
- UV resistant epoxy

Selection guide :

Emitted Color	Material	Wavelength (nm)	Lens Color	Viewing Angle
Super Red	AlGaInP	630	White Diffused	45°
Super Green	GaN	528		
Super Blue	GaN	472		



Notes:
 1. All dimensions are in millimeter.
 2. Lead spacing is measured where the lead emerge from the package.

1. Green
 2. Blue
 3. Common Cathode
 4. Red

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Absolute Maximum Ratings ($T_a=25^{\circ}\text{C}$)

Parameter		Symbol	Max. Rating	Unit
Power Dissipation	Red	P_D	120	mW
	Green		120	
	Blue		120	
Peak Forward Current (1/10 Duty Cycle @1KHz)	Red	I_{PF}	200	mA
	Green		100	
	Blue		100	
Continuous Forward Current	Red	I_{AF}	50	mA
	Green		30	
	Blue		30	
Reverse Voltage		V_R	5.0	V
Operating Temperature Range	Red	T_{OPR}	-40~+85	$^{\circ}\text{C}$
	Green · Blue		-20~+80	
Storage Temperature Range	Red	T_{STG}	-40~+85	$^{\circ}\text{C}$
	Green · Blue		-30~+100	
Solder temperature 1.6mm from body for 3 seconds at 260°C				

Optical –Electrical Characteristics ($T_a=25^{\circ}\text{C}$)

Parameter		Symbol	Test condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Red	IV	IF=20mA	420	600		mcd
	Green			700	1000		
	Blue			140	200		
Forward Voltage	Red	VF	IF=20mA		2.0	2.4	V
	Green				3.5	4.0	
	Blue				3.5	4.0	
Reverse Current	Red	IR	VR=5V			10	μA
	Green					10	
	Blue					10	
View Angle		$2\theta\ 1/2$	IF=20mA		45		deg.
Peak Wavelength	Red	λP	IF=20mA		630		nm
	Green				528		
	Blue				472		
Dominant Wavelength	Red	λD	IF=20mA		625		nm
	Green				525		
	Blue				470		
Spectrum Radiation Bandwidth	Red	$\Delta\lambda$	IF=20mA		20		nm
	Green				30		
	Blue				35		