

# FULL COLOR LED LAMPS

## Model No. LEF-C5004T

### Description:

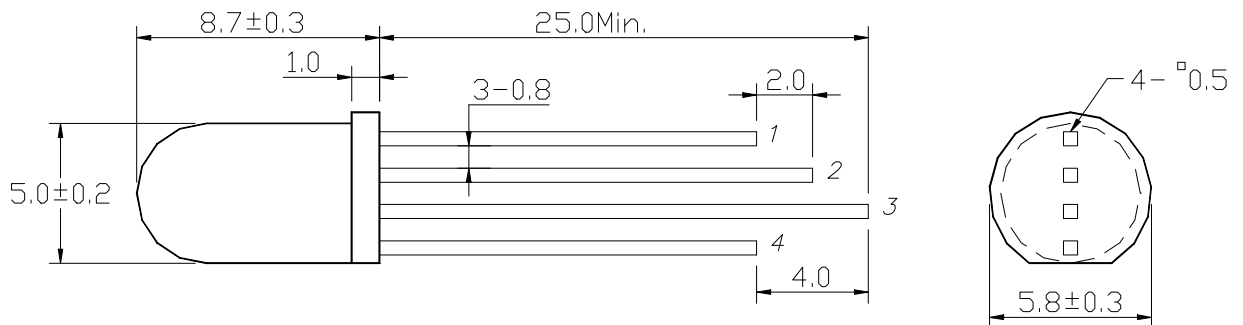
- Super bright LED Lamp
- Full Color
- Round type
- T1-3/4 (5mm)diameter
- 4 pin
- With Flange
- Solder leads without stand-off
- Package : bulk

### Features :

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

### Selection guide :

Emitted Color	Material	Wavelength (nm)	Lens Color	Viewing Angle
Super Red	AlGaInP	630	White Diffused	20°
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. Red
4. Common Anode

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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 $^{\circ}\text{C}$				

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

Parameter		Symbol	Test condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Red	IV	IF=20mA	620	1000		mcd
	Green			700	1200		
	Blue			450	1000		
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	$\mu\text{A}$
	Green					10	
	Blue					10	
View Angle		$2\theta\ 1/2$	IF=20mA		20		deg.
Peak Wavelength	Red	$\lambda P$	IF=20mA		630		nm
	Green				528		
	Blue				472		
Dominant Wavelength	Red	$\lambda D$	IF=20mA		625		nm
	Green				525		
	Blue				470		
Spectrum Radiation Bandwidth	Red	$\Delta\lambda$	IF=20mA		20		nm
	Green				30		
	Blue				35		