

SPECIFICATIONS CL50GT2C-15D

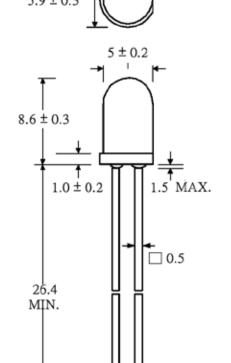
OUTLINES DIMENSIONS

DESCRIPTION

- Super bright LED lamp
- Round type
- T1-3/4 (5mm) diameter
- Lens color: Water clear
- With flange
- Solder leads without stand-off

FEATURES

- Emitted color: Super Green
- High luminous intensity
- Technology: GaN
- Peak wavelength λ_p = 527nm
- Viewing angle: 15°
- UV resistant epoxy



ANÓDE

Notes:

- 1. All Dimensions are in millimeters (inches).
- 2. Tolerance is \pm 0.25mm (0.01") unless otherwise noted.
- 3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CL50GT2C-15D	GaN	Green	Water Clear	15°



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1.0 MIN.



ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit				
Power Dissipation	Po	120	mW				
Pulse Current Forward Current	IFP	100	mA				
Continuous Forward Current	lF	30	mA				
Reverse Voltage	VR	5	V				
Operating Temperature Range	Topr	-20~+80	°C				
Storage Temperature Range	Тѕтс	-30~+100	°C				

IFP = Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 260 °C/ 5sec

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

Darameter	Symbol	Test Condition	Value			Lloit
Parameter			Min	Тур	Max	Unit
Luminous Intensity	lv	I _F = 20mA	6600	10000	-	mcd
Forward Voltage	VF	I⊧ = 20mA	-	3.5	4.0	V
Reverse Leakage Current	lR	V _R = 5V	-	-	10	μΑ
Viewing Angle	201/2	I⊧ = 20mA	-	15	-	deg
Dominant Wavelength	λD	I⊧ = 20mA	-	525	-	nm

^{*}Tolerance of viewing angle: -10 / +5 deg.

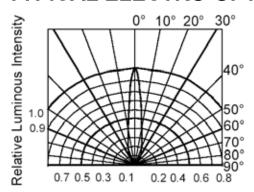


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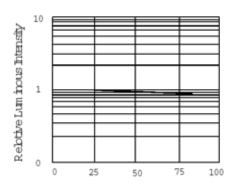


OPTICAL CHARACTERISTIC CURVES

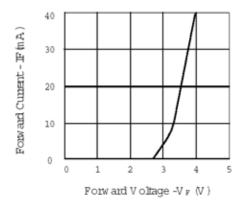
TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES



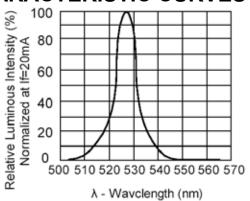
RADIATION DIAGRAM



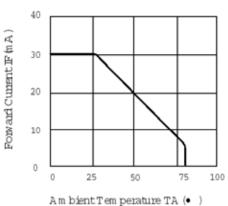
LUMINOUS INTENSITY
Vs. AMBIENT TEMPERATURE



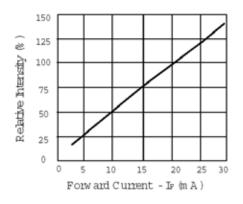
FORWARD CURRENT Vs. FORWARD VOLTAGE



RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



FORWARD CURRENT Vs. AMBIENT TEMPERATURE



LUMINOUS INTENSITY Vs. FORWARD CURRENT



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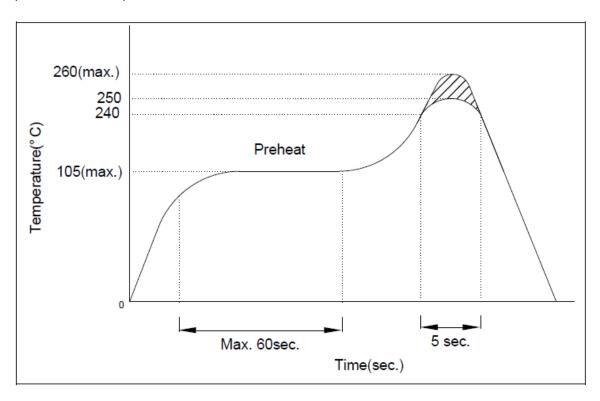
SOLDERING CONDITIONS – LAMP TYPE LED

PRECAUTION FOR USE

1. Recommended Soldering Condition

1.1 Wave Soldering

Basic spec is \leq 5 sec. when 260°C. If temperature is higher, time should be shorter (+10°C \rightarrow -1 sec).



1.2 Soldering Iron

Power dissipation of iron should be smaller than 15W and temperature should be controllable. Surface temperature of iron tip should be under 230°C, soldering time ≤ 3 sec.

2. Electrostatic Discharge (ESD)

Static electricity or surge voltage will damage the LEDs.

Use of conductive wrist band or anti-electrostatic glove when handling these LEDs is recommended. All devices, equipment, work table, storage rack and machinery must be properly grounded.

In the events of manual working in process, make sure devices are well protected from ESD at all times.

