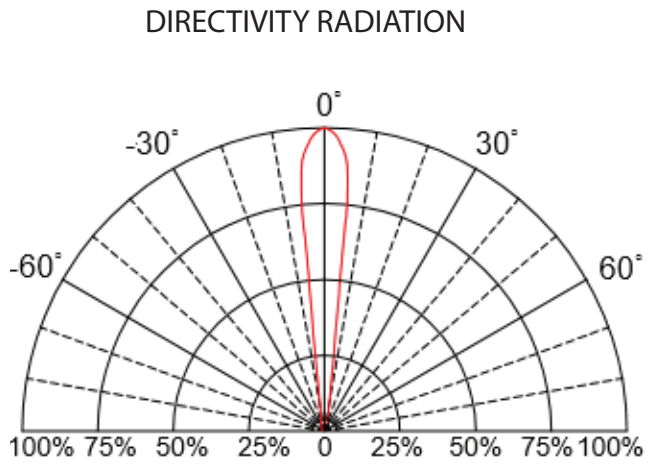
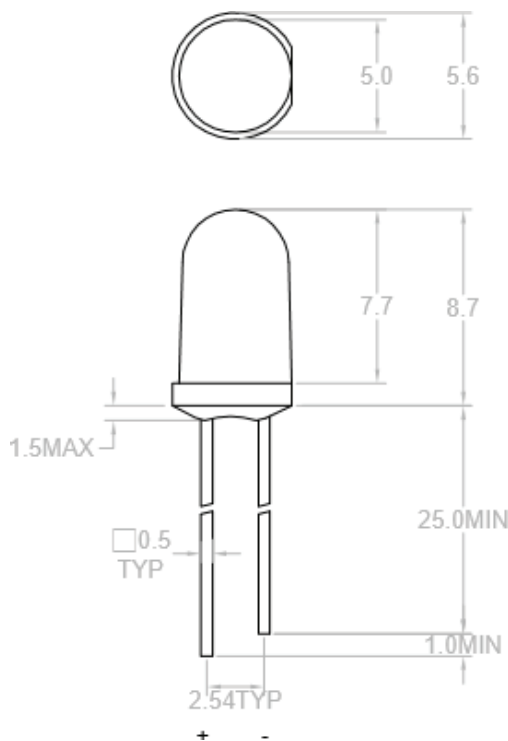


SPECIFICATIONS **CL50GT5C**
OUTLINES DIMENSIONS


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

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CL50GT5C	InGaN	Green	Water Clear	15°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	P _D	120	mW
Pulse Current Forward Current	I _{FP}	100	mA
Continuous Forward Current	I _F	30	mA
Reverse Voltage	V _R	5	V
Operating Temperature Range	T _{OPR}	-20~+80	°C
Storage Temperature Range	T _{STG}	-30~+100	°C
I _{FP} = Pulse Width ≤ 10 ms, Duty Ratio ≤ 1/10. Soldering Condition: 260 °C/ 5sec			

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	I _V	I _F = 20mA	21000	32000	-	mcd
Forward Voltage	V _F	I _F = 20mA	-	3.5	4.0	V
Reverse Leakage Current	I _R	V _R = 5V	-	-	50	μA
Viewing Angle	2θ _{1/2}	I _F = 20mA	-	15	-	deg
Dominant Wavelength	λ _D	I _F = 20mA	-	525	-	nm

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



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OPTICAL CHARACTERISTIC CURVES

Fig.1 Forward current vs. Forward Voltage

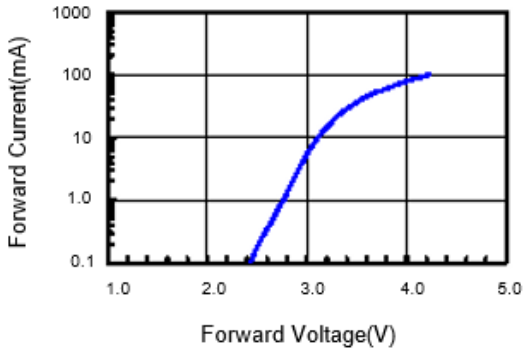


Fig.2 Relative Intensity vs. Forward Current

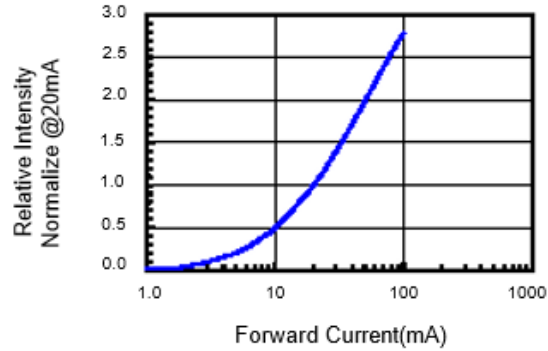


Fig.3 Forward Voltage vs. Temperature

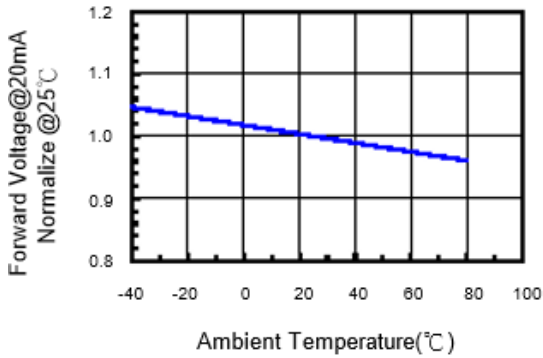


Fig.4 Relative Intensity vs. Temperature

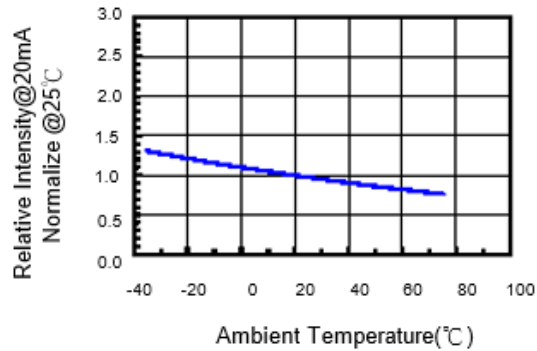
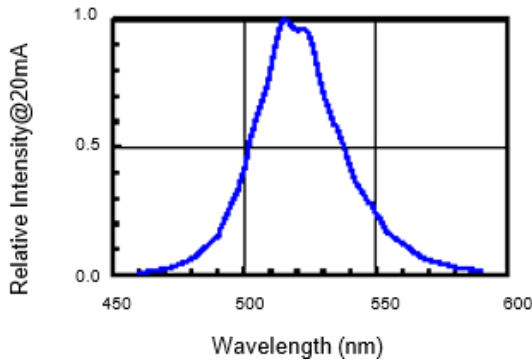


Fig.5 Relative Intensity vs. Wavelength



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SOLDERING CONDITIONS – LAMP TYPE LED

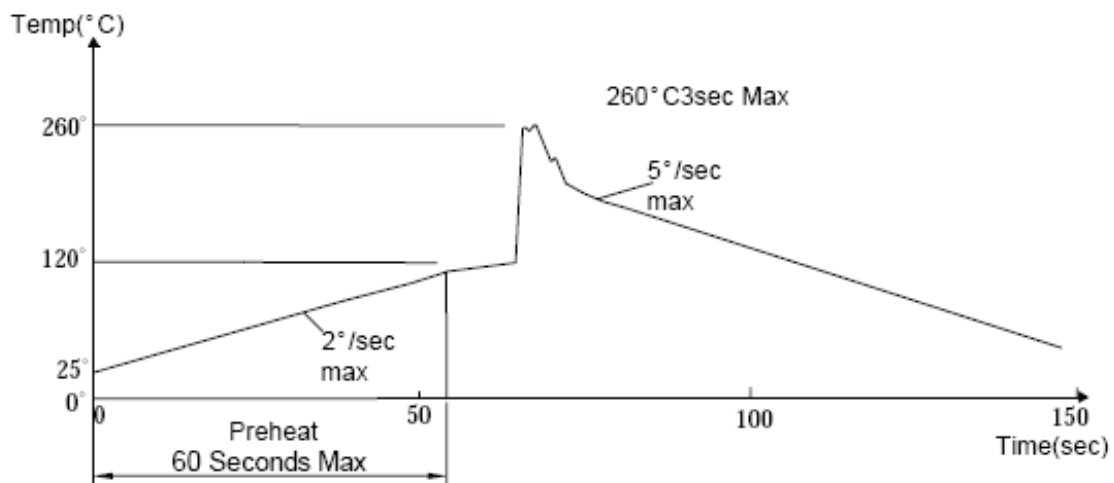
SOLDERING CONDITION (Pb-Free)

1. Iron:

- Soldering Iron: 30W Max
- Temperature 350°C Max
- Soldering Time: 3 Seconds Max (One Time only)
- Distance: 2mm Min (From solder joint to body)

2. Wave Soldering Profile

- Dip Soldering
- Preheat: 120°C Max
- Preheat time: 60 seconds Max
- Ramp-up
- 2°C/sec (Max)
- Ramp-Down: -5°C/sec (Max)
- Solder Bath: 260°C Max
- Dipping Time: 3 seconds Max
- Distance: 2mm Min (from solder joint to body)



- Note: 1. Wave solder should not be made more than one time.
2. You can only select one of the soldering conditions above.



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