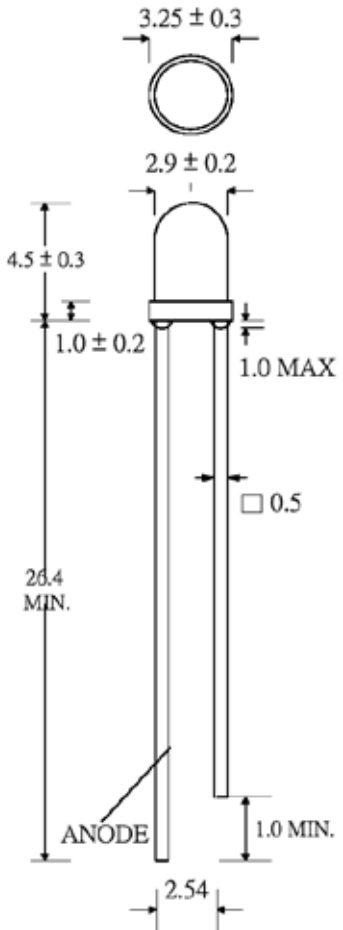


SPECIFICATIONS **CL28GT3C**
OUTLINES DIMENSIONS
DESCRIPTION

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

FEATURES

- Emitted color: Super Green
- High luminous intensity
- Technology: InGaN
- Peak wavelength $\lambda_p = 528\text{nm}$
- Viewing angle: 30°



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
CL28GT3C	InGaN	Green	Water Clear	30°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	PD	120	mW
Pulse Current Forward Current	IFP	100	mA
Continuous Forward Current	IF	30	mA
Reverse Voltage	VR	5	V
Operating Temperature Range	TOPR	-40~+85	°C
Storage Temperature Range	TSTG	-40~+100	°C
IFP = Pulse Width ≤ 10 ms, Duty Ratio ≤ 1/10. Soldering Condition: 260 °C/ 5sec			

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

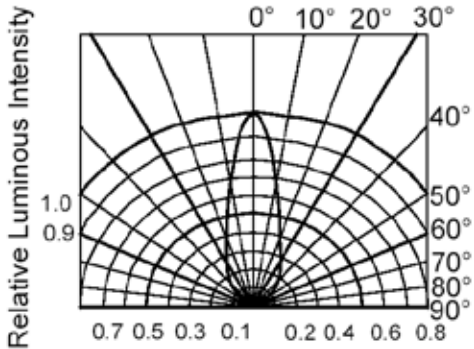
Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	IV	IF = 20mA	4000	6000	-	mcd
Forward Voltage	VF	IF = 20mA	-	3.5	4.0	V
Reverse Leakage Current	IR	VR = 5V	-	-	10	µA
Viewing Angle	2θ1/2	IF = 20mA	-	30	-	deg
Peak Wavelength	λP	IF = 20mA	-	528	-	nm
Dominant Wavelength	λD	IF = 20mA	-	525	-	nm

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

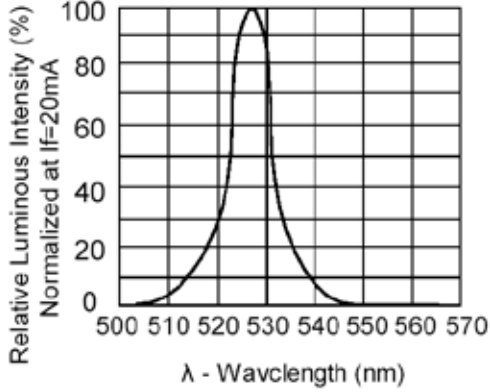


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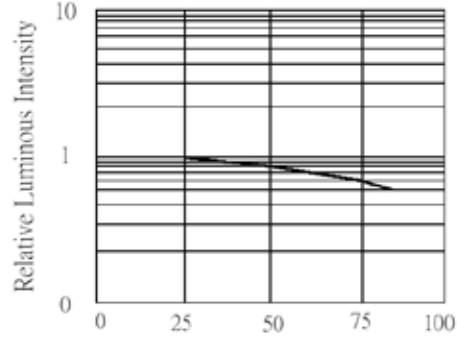
OPTICAL CHARACTERISTIC CURVES



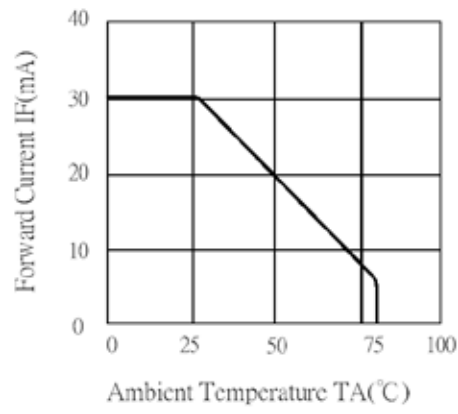
RADIATION DIAGRAM



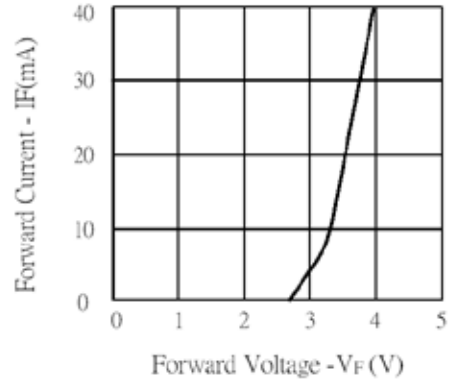
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



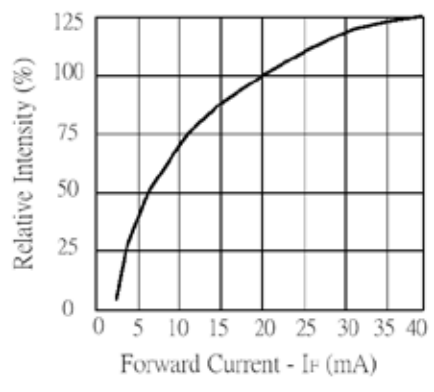
LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT



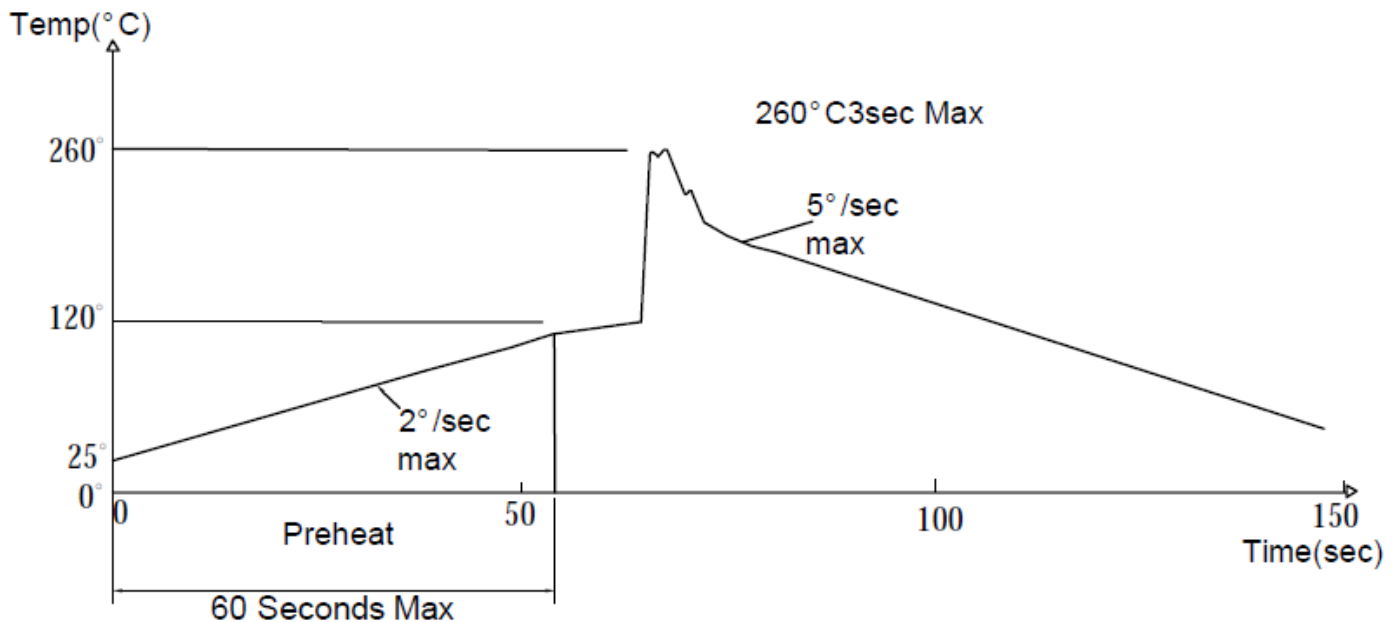
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SOLDERING CONDITIONS – LAMP TYPE LED

SOLDERING PROFILE

1. Iron:
 - Soldering Iron: 30W max
 - Temperature 350 °C max
 - Soldering Time: 3 seconds max (one time)
 - Distance: 2mm min (from solder joint to body)

2. Wave Soldering Profile:
 - Dip soldering
 - Preheat: 120 °C max
 - Preheat time: 120 seconds max
 - 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)



Notes:

1. Wave solder should not be made more than one time.
2. Only select one of the soldering conditions as above.



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