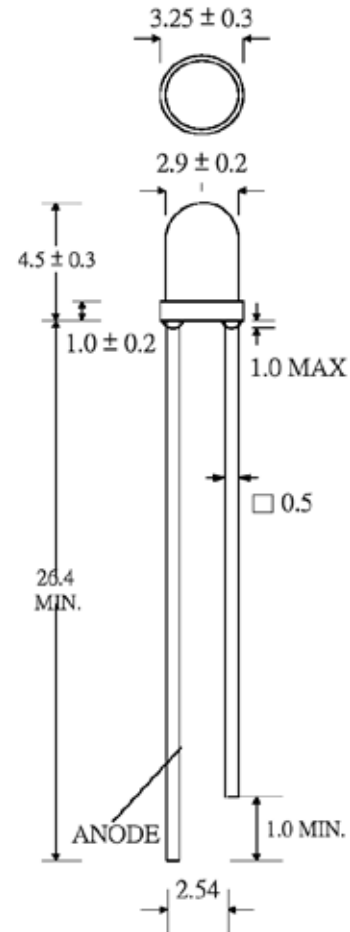


SPECIFICATIONS
CL28GT3C5MA
OUTLINES DIMENSIONS
DESCRIPTION

- 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
CL28GT3C5MA	InGaN	Green	Water Clear	30°



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

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)

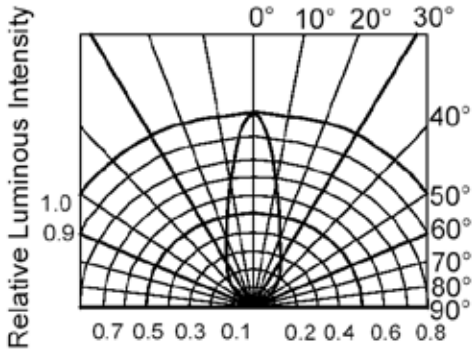
Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	IV	IF = 5mA	2000	3000	-	mcd
Forward Voltage	VF	IF = 5mA	-	2.9	3.5	V
Reverse Leakage Current	IR	VR = 5V	-	-	10	µA
Viewing Angle	2θ1/2	IF = 5mA	-	30	-	deg
Peak Wavelength	λP	IF = 5mA	-	520	-	nm
Dominant Wavelength	λD	IF = 5mA	-	525	-	nm

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

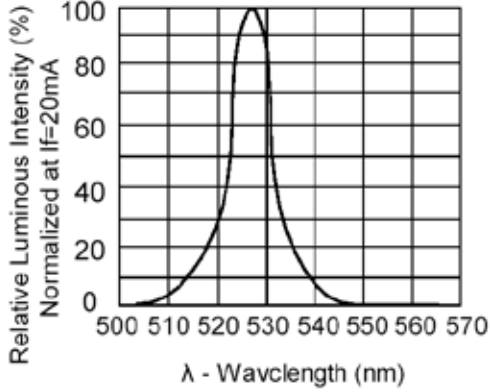


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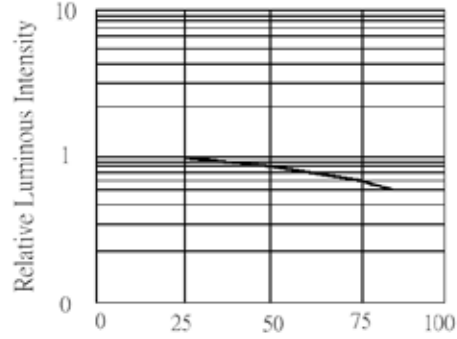
OPTICAL CHARACTERISTIC CURVES



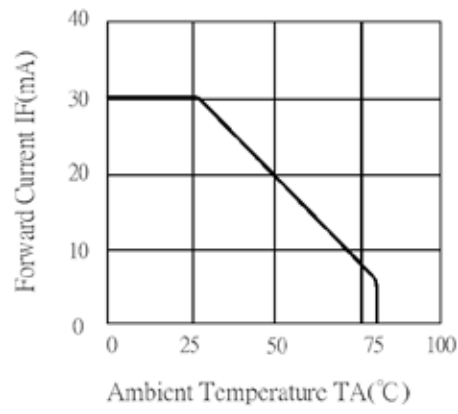
RADIATION DIAGRAM



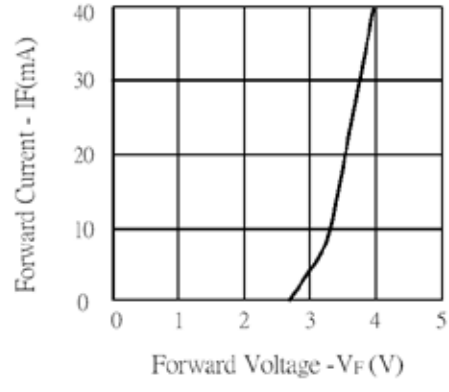
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



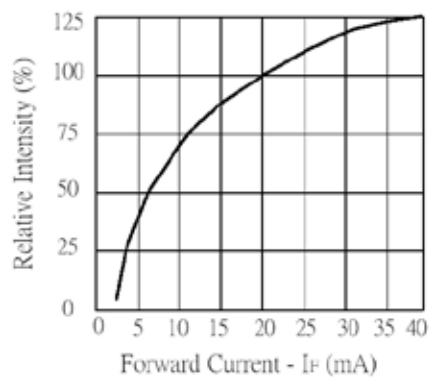
LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT



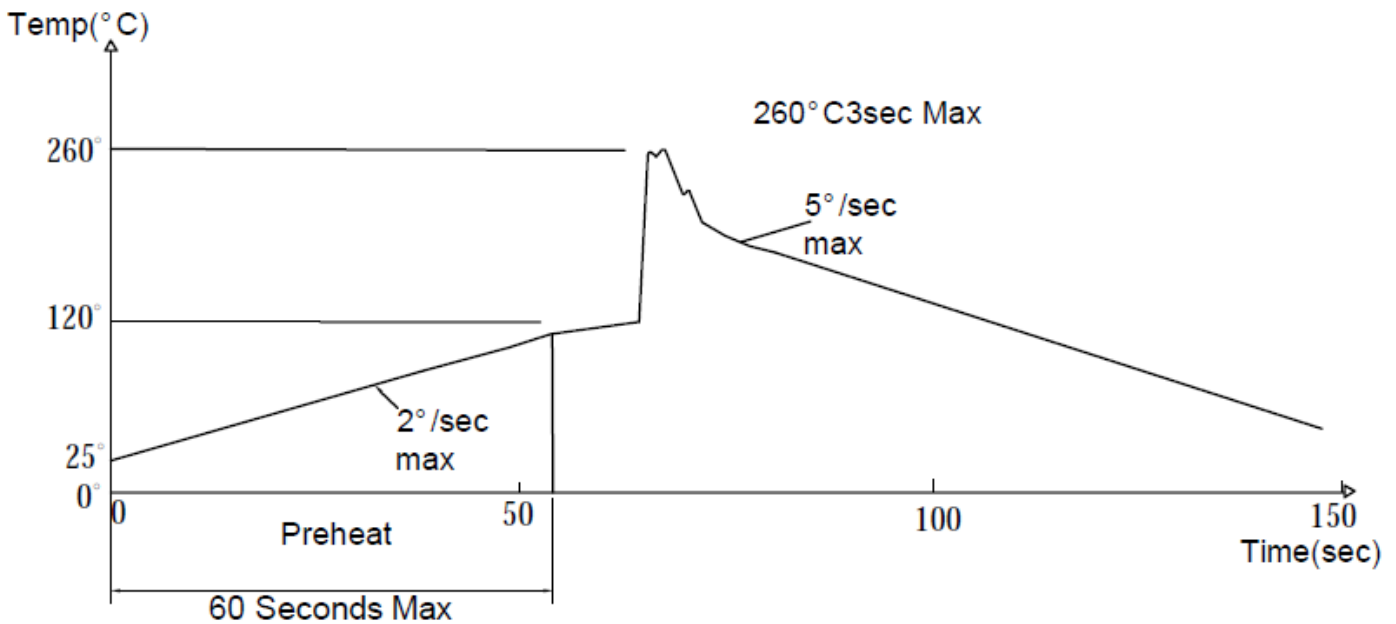
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SOLDERING CONDITIONS – LAMP TYPE LED

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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