

LIGHTHOUSE LEDs

Technical Data Sheet

Product Name:	PLCC-4 SMD Pure Green - Ultra Bright 1210 / 3528 LED
Part Number:	PLCC4SMDPUREGREEN
SKU:	PLCC4SMDPUREGREEN
Package:	PLCC-4/3528 SMD RGB
Date:	2026-03-30

Document Control

Prepared by

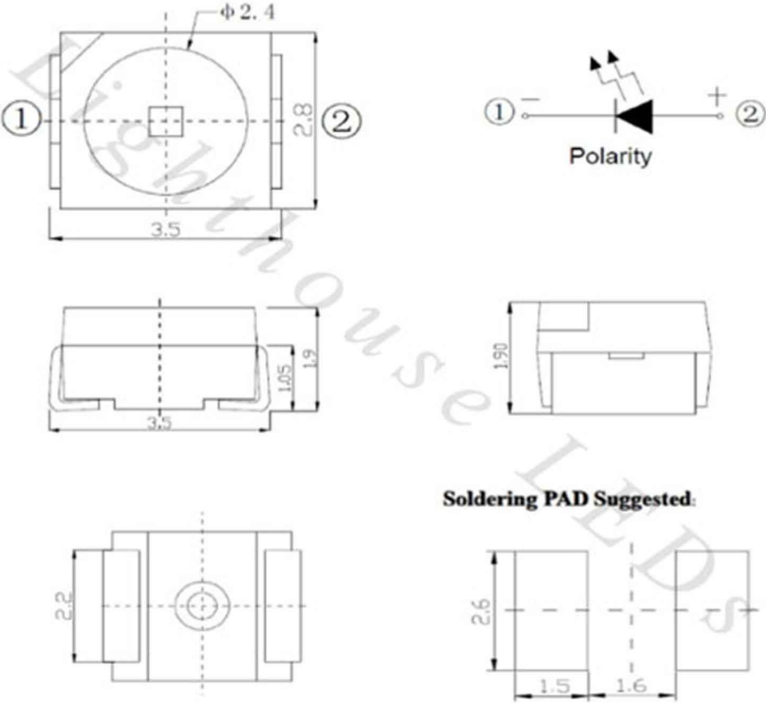
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Approved by

1. Features

- Package: PLCC-4/3528 SMD RGB
- Color: Ultra Bright Pure Green
- Lens: Clear
- Die Material: InGaN
- RoHS Compliant, Lead-Free

2. Outline Dimensions



Unit	Tolerance	Die Material	Lens Color	Emission Color
mm	±0.2mm	InGaN	Clear	Pure Green

3. Electrical / Optical Characteristics (Ta = 25°C, RH 60%)

Parameter	Symbol	Test Condition	Min	Typ.	Max	Unit
Forward Voltage	VF	IF = 20mA each Chip/Diode - 3 Chips/Diodes	3.0	—	3.6	V
Reverse Current	IR	VR = 5V	—	—	5	μA
Luminous Intensity	IV	IF = 20mA each Chip/Diode - 3 Chips/Diodes	1800	—	—	mcd
Viewing Angle	2θ1/2	IF = 20mA each Chip/Diode - 3 Chips/Diodes	—	120	—	°
Dominant Wavelength	λd	IF = 20mA each Chip/Diode - 3 Chips/Diodes	520	—	525	nm
Spectral Line Half-Width	Δλ	IF = 20mA each Chip/Diode - 3 Chips/Diodes	—	20	—	nm

Remark: Tolerance of intensity ±15%, wavelength ±1nm, forward voltage ±0.05V. For reference only.

4. Absolute Maximum Ratings (Ta = 25°C, RH 60%)

Parameter	Symbol	Value	Unit	Remark
Forward Current	IF	20	mA	—
Peak Forward Current	IFM	100	mA	F=1kHz, duty cycle 1/10
Reverse Voltage	VRP	5	V	—
Power Dissipation	Pd	120	mW	—
Operating Temperature	Tamb	-40 to +85	°C	—
Storage Temperature	Tstg	-40 to +85	°C	—
Soldering Temperature	Tsol	Reflow 260°C/5s, Hand 300°C/3s		

5. Typical Electrical / Optical Characteristic Curves

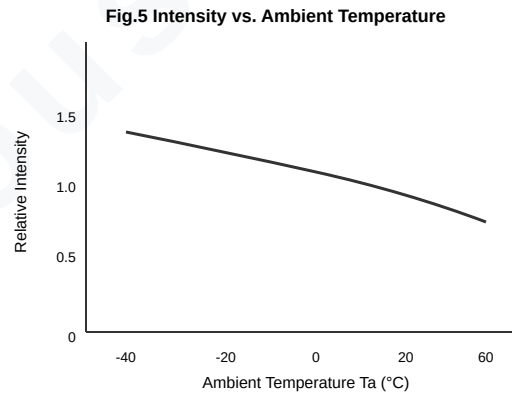
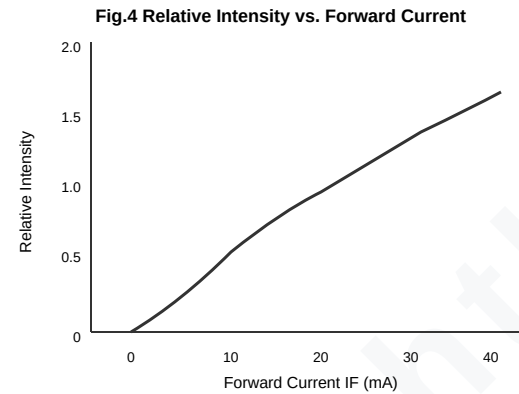
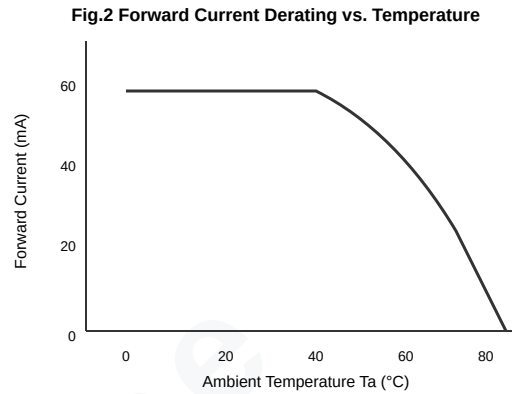
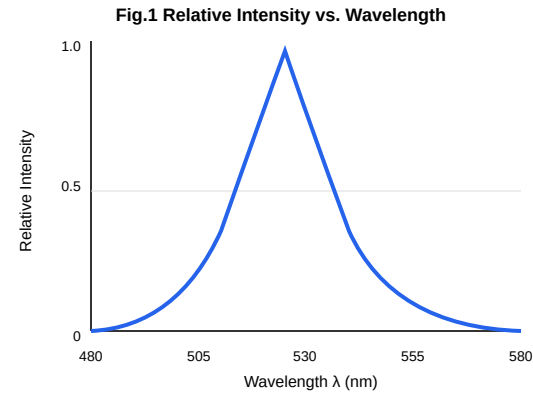
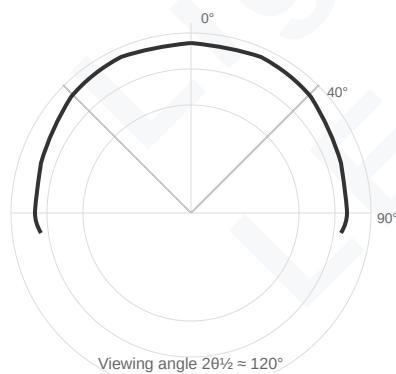


Fig.6 Spatial Distribution (Radiation Pattern)



6. Reliability Test Data

Test	Standard	Conditions	Duration	Qty	Failures
Life Test (room temp)	JIS7021:B4	Ta = 25°C ±5°C, IF = 30mA	100 hrs	22	0
High Temperature Storage	JIS7021:B10 / MIL-STD-202:210A	Ta = 85°C ±5°C	1000 hrs	22	0
Low Temperature Storage	JIS7021:B12	Ta = -35°C ±5°C	1000 hrs	22	0
High Temp / Humidity	JIS7021:B11 / MIL-STD-202:103D	Ta = 85°C ±5°C, RH = 85%	1000 hrs	22	0
Thermal Shock	JIS7021:B4 / MIL-STD-202:107D	-10°C ↔ +100°C, 5min each	50 cycles	22	0
Temperature Cycling	JIS7021:A3 / MIL-STD-705:105E	-35°C ~ -25°C ~ 85°C ~ -35°C	50 cycles	22	0

7. Application Notes

- Always use a current-limiting resistor. See lighthouseleds.com/blog/led-resistor-calculator.html
- For AC or DCC power, add a bridge rectifier. See lighthouseleds.com/blog/bridge-rectifier-led-ac-dcc-landscape-lighting.html
- Observe polarity: longer lead = anode (+), shorter lead with flat = cathode (-).
- Do not exceed maximum forward current (20mA continuous).

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Specifications subject to change without notice. Data is for reference only.