SMD 0805 LED SERIES



OF-SMD2012B BLUE



ATTENTION

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



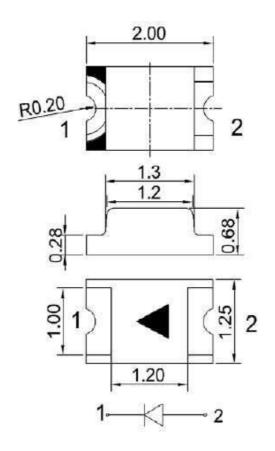
Description

The Blue source color devices are made with DH GaN on GaAs substrate Light Emitting Diode.

Features

- 2.0mmx1.25mm SMT LED, 0.68mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE: 3000PCS / REEL.

Package Dimensions



Notes:

- All dimension units are millimeters.
- 2.All dimension tolerance is ±0.2mm unless otherwise noted.
- 3.An epoxy meniscus may extend about 1.5mm down the leads. 4.Burr around bottom of epoxy may be 0.5mm max...



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Selection Guide

Part. No	Dice	Lens Type	lv(mcd) @20mA		Viewing Angle
			Min.	Тур.	201/2
OF-SMD2012B	BLUE (GaN)	Water Clear	150	200	120°

Electrical / Optical Characteristics at TA=25℃

Parameter	Symbol	Device	Condition	Min	Тур	Unit
Forward Voltage DC	VF	Blue	IF=20mA	3.0	3.2	V
Reverse Current	IR	All	VR=5V		5	uA
Dominant Wavelength	λD	Blue	IF=20mA	473	476	nm
Capacitance	IF(rec)	Blue	VF-0V; f=1MHz		110	pF

Absolute Maximum Ratings at TA=25℃

Parameter	Blue	Units		
Power Disspation	114	mW		
DC Forward Current	30	mA		
Peak Forward Current	160	mA		
Reverse Voltage	5	V		
Operating/Storage Temperature	ure -40℃ to +85℃			

^{1.} θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

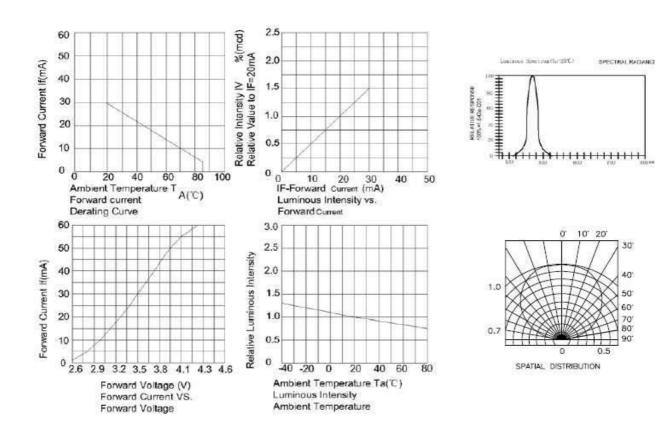


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Reliability Test Items And Conditions

The reliability of products shall be satisfied with items listed below. Confidence level :90% LTPD :10%

No.	Items	Test Condition	Test Hours/Cycles	Sample Size	Ac/Rc
1	Reflow	Temp:240°C±5°C Min.5 sec.	6 Min.	22Pcs.	0/1
2	Temperature Cycle	H:+100°C 15 min. ~ 5 min L:-40°C 15 min.	300 Cycles	22Pcs.	0/1
3	Thermal Shock	H:+100°C 5 min. ~10 sec. L:-10°C 5 min.	300 Cycles	22Pcs.	0/1
4	High Temperature Storage	Temp.:100°C	1000Hrs.	22Pcs.	0/1
5	Low Temperature Storage	Temp.:-55°C	1000Hrs.	22Pcs.	0/1
6	DC Operating Life	I=20mA	1000Hrs.	22Pcs.	0/1
7	High Temperature/High Humidity	85°C/R.H85%	1000Hrs.	22Pcs.	0/1

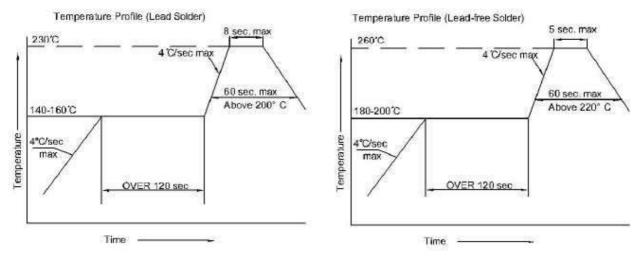


optoflash

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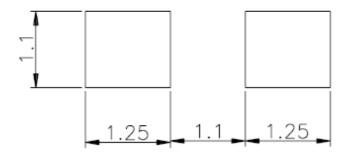
SMT Reflow Soldering Instructions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



Recommended Soldering Pattern

(Units: mm)



Tape Specifications

(Units : mm)

