EN: This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

SMD 0805 LED SERIES

OF-SMD2012B BLUE

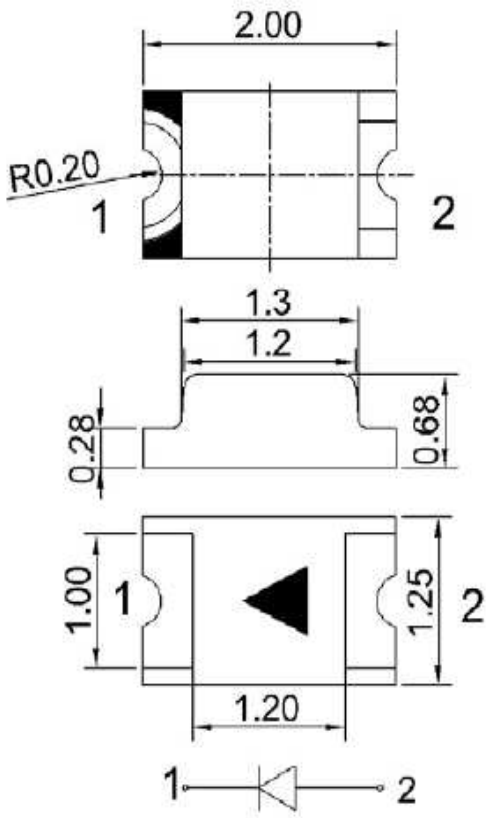


ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

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:
1. 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..

SMD 0805 LED SERIES

Selection Guide

Part. No	Dice	Lens Type	Iv(mcd) @20mA		Viewing Angle
			Min.	Typ.	2Θ1/2
OF-SMD2012B	BLUE (GaN)	Water Clear	150	200	120°

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25℃

Parameter	Symbol	Device	Condition	Min	Typ	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	-40℃ to +85℃	

Note:

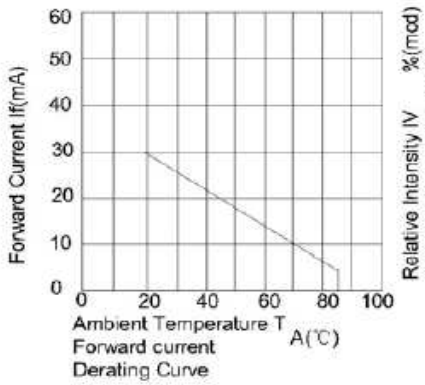
1. **1/10 Duty Cycle, 0.1ms Pulse Width.**

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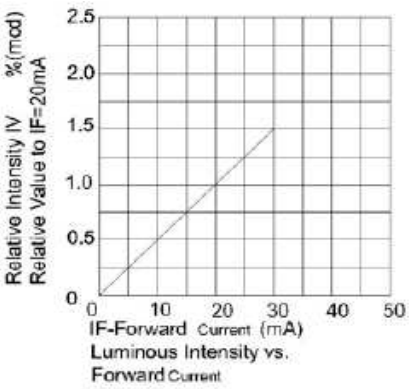
Reliability Test Items And Conditions

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

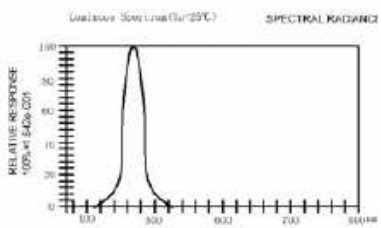
No.	Items	Test Condition	Test Hours/Cycles	Sample Size	Ac/Rc
1	Reflow	Temp:240ºC±5ºC Min.5 sec.	6 Min.	22Pcs.	0/1
2	Temperature Cycle	H:+100ºC 15 min. ~ 5 min L:-40ºC 15 min.	300 Cycles	22Pcs.	0/1
3	Thermal Shock	H:+100ºC 5 min. ~ 10 sec. L:-10ºC 5 min.	300 Cycles	22Pcs.	0/1
4	High Temperature Storage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

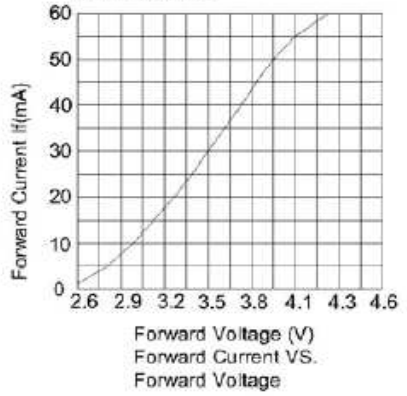


Forward current
Derating Curve

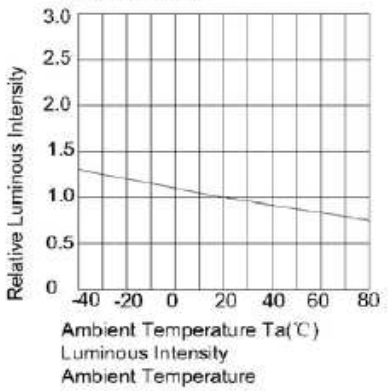


Luminous Intensity vs.
Forward Current

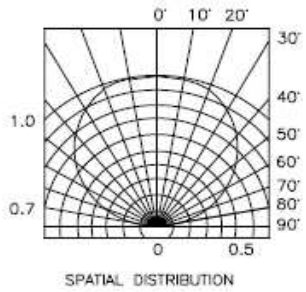




Forward Current VS.
Forward Voltage



Luminous Intensity
Ambient Temperature

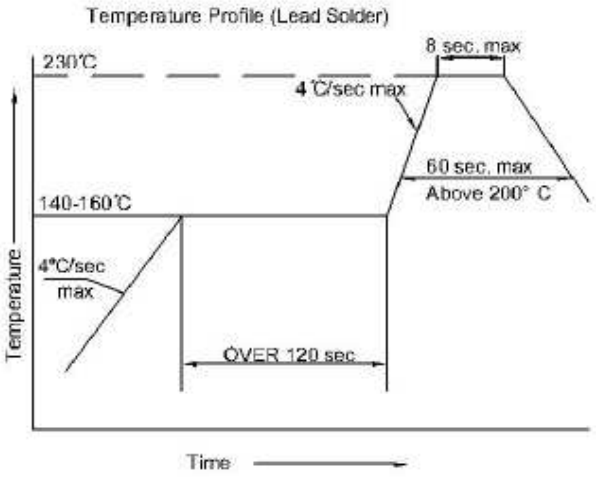


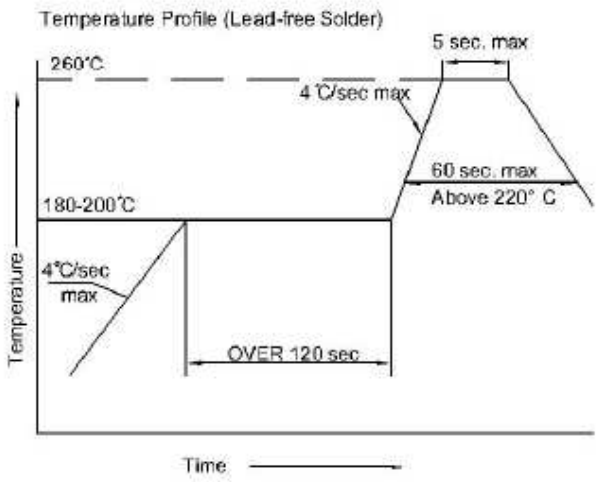
SPATIAL DISTRIBUTION

SMD 0805 LED SERIES

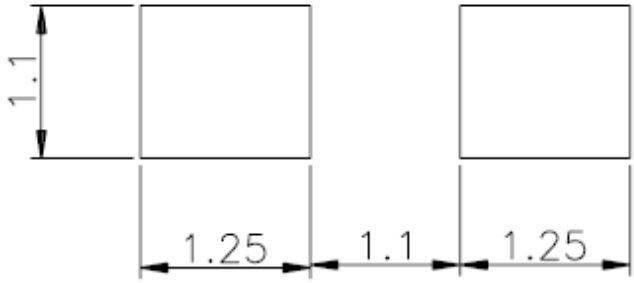
SMT Reflow Soldering Instructions

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)

