# optoflash

# SMD 0805 LED SERIES

# OF-SMD2012R RED



### **ATTENTION**

OBSERVE PRECAUTIONS FOR HANDLING **ELECTROSTATIC** DISCHARGE **SENSITIVE DEVICES** 



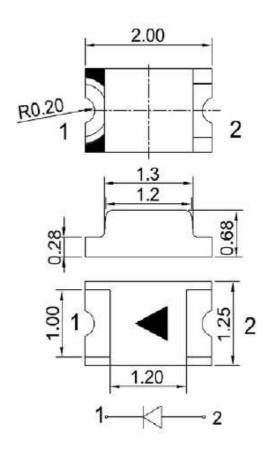
#### **Description**

The Red source color devices are made with DH InGaAIP 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.	2Θ1/2
OF-SMD2012R	RED (InGaAIP)	Water Clear	90	120	120°

Note:

Electrical / Optical Characteristics at TA=25℃

Parameter	Symbol	Device	Condition	Min	Тур	Unit
Forward Voltage DC	VF	Red	IF=20mA	1.6	1.9	V
Reverse Current	IR	All	VR=5V		5	uA
Dominant Wavelength	λD	Red	IF=20mA	621	624	nm
Capacitance	IF(rec)	Red	VF-0V; f=1MHz		15	pF

Absolute Maximum Ratings at TA=25℃

- to control maximum reading of the fire and control a					
Parameter	Red	Units			
Power Disspation	70	mW			
DC Forward Current	30	mA			
Peak Forward Current	160	mA			
Reverse Voltage	5	V			
Operating/Storage Temperature	-40℃ to +85℃				

<sup>1.</sup>  $\theta$ 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.

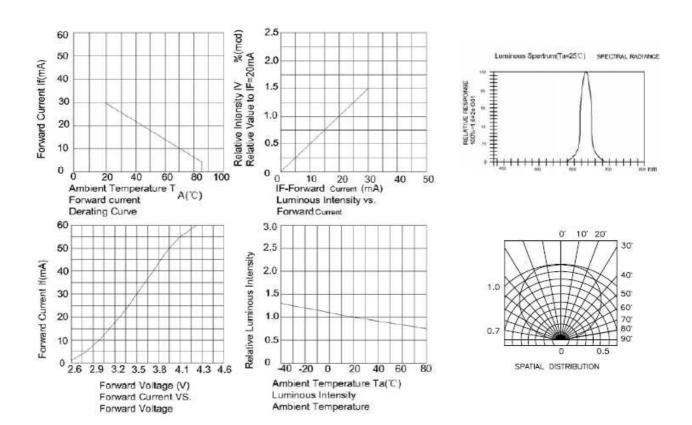


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### **Reliability Test Items And Conditions**

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 Temp.:-55°C Storage		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

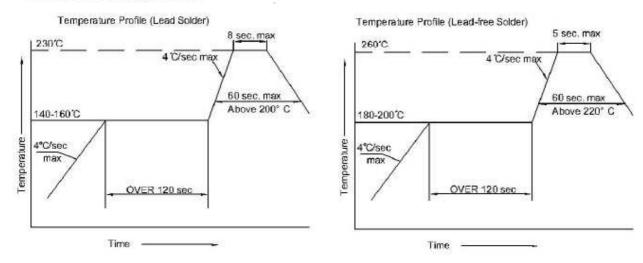


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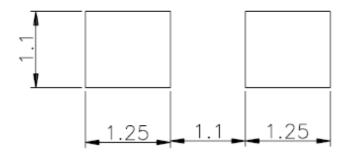
## SMT Reflow Soldering Instructions

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)

