

◇ **Features:**

- Package: 1.0*0.5*0.45 mm
- Mono-color type
- Soldering methods :All SMT assembly methods
- Comply ROHS standard



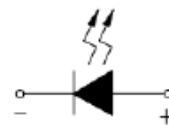
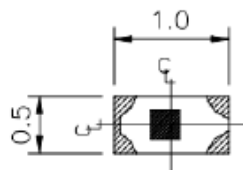
◇ **Description**

The Blue source color devices are made with InGaN on sapphire Light Emitting Diode.

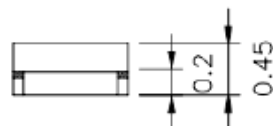
◇ **Application**

- LCD backlight
- Illuminations

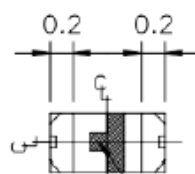
◇ **Package Dimensions**



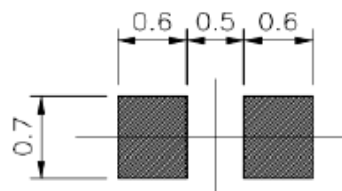
POLARITY



For Reflow Soldering



Cathode Mark



NOTES:

1. All dimensions are in millimeter[unit];
2. Tolerance is±0.1mm(0.004") unless other specified;
3. Specifications are subject to change without notice.

Emitted Color	Lens Color	Chip Material
Blue	Water Clear	InGaN

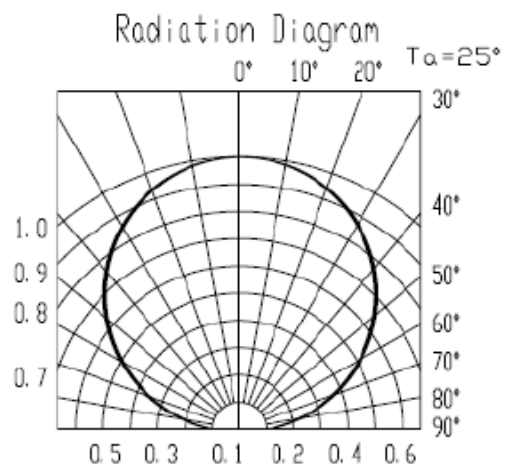
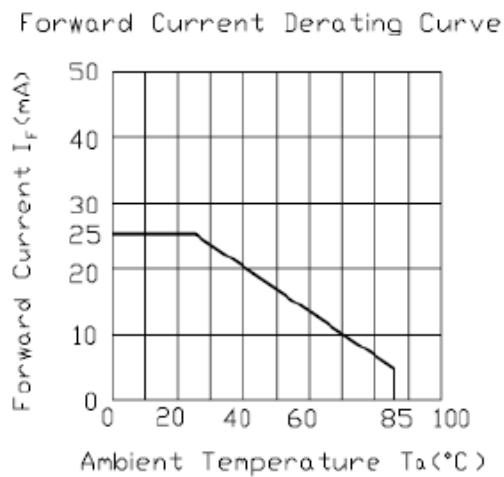
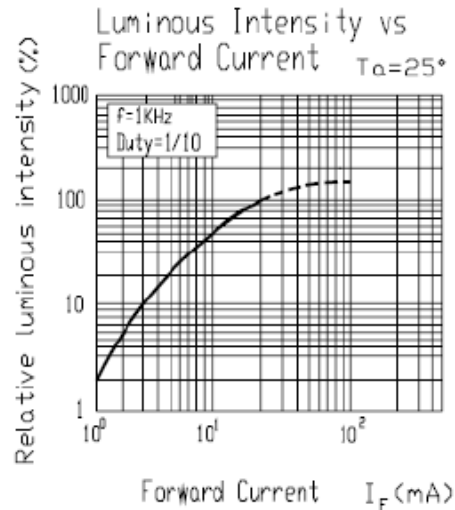
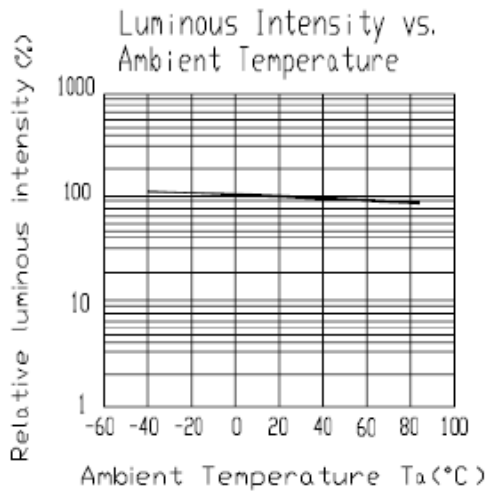
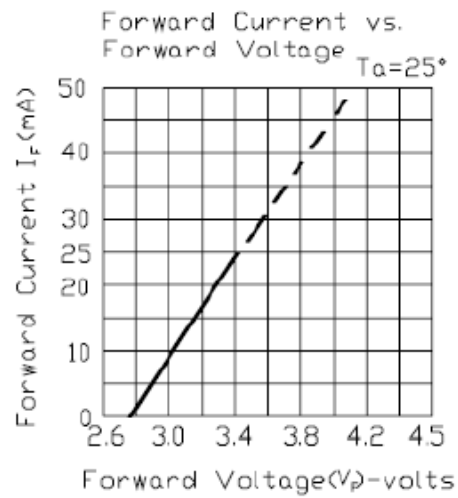
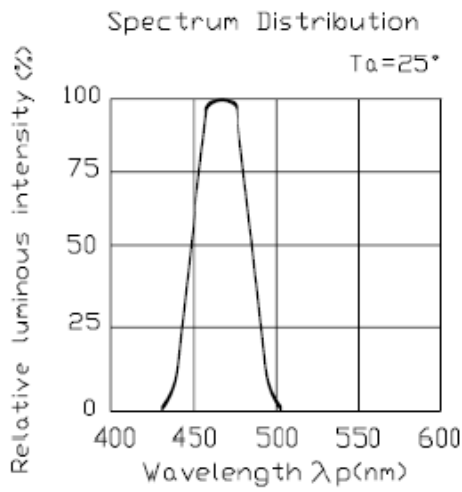
✧ Absolute Maximum Ratings(Ta=25°C)

Item	Symbol	Maximum	Unit
Power Dissipation	PD	110	mW
Continuous Forward Current	I _{Fmax}	25	mA
Peak Forward Current(1/10 Duty Cycle 0.1ms Pulse Width)	I _{FP}	100	mA
Reverse Voltage	V _R	5	V
Operating Temperature Range	T _{opr}	-40 to+85	°C
Storage Temperature Range	T _{stg}	-40 to+85	°C
Lead Solder Temperature	T _{sol}	260°C for 3 seconds	

✧ Electrical/Optical Characteristics(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max	Unit
Forward Voltage	V _F	I _F =20mA	2.7	-	3.7	V
Luminous Intensity	I _V	I _F =20mA	28	-	72	mcd
Wavelength	λ	I _F =20mA	460	468	477	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	-	120	-	Deg
Reverse Current	I _R	V _R =5V	-	--	10	uA

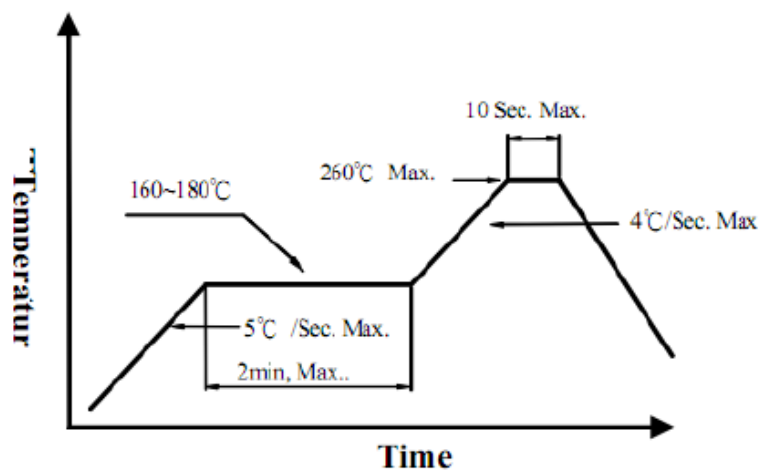
✧ Typical Electro-Optical Characteristics Curves



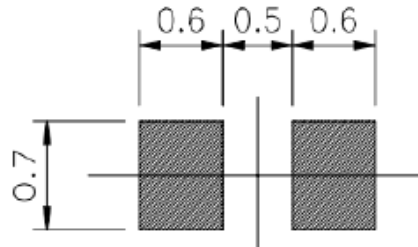
❖ Reliability Test Items And Conditions

NO.	Item	Test Condition	Test Hr/cycle/time	Sample Q'ty	Ac/Re
1	Reflow	TEMP:260±5°C; Min.5Sec	6 min	22pcs	0/1
2	Temperature Cycle	H:+90°C 30mins To(5mins) L:-30°C 30mins	300 cycles	22pcs	0/1
3	Thermal Shock	H:+100°C 20mins To(5mins) L:-40°C 20mins	100 cycles	22pcs	0/1
4	High Temperature Storage	TEMP:+100°C	1000hrs	22pcs	0/1
5	Low Temperature Storage	TEMP:-30°C	1000hrs	22pcs	0/1
6	DC Operating Life	IF=20MA	1000hrs	22pcs	0/1
7	High Temperature	65°C	240hrs	22pcs	0/1
8	High Humidity	R.H.= 85%		22pcs	0/1

❖ Reflow Temp/Time :



❖ Recommended Soldering Pad Dimensions:



❖ Tape Specification

