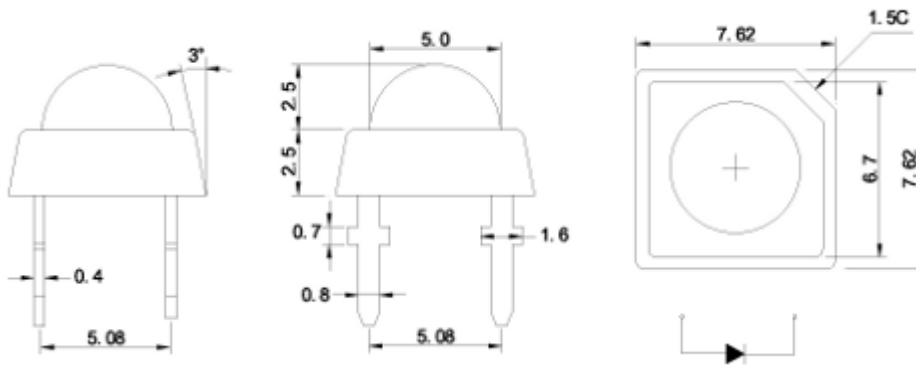**ATTENTION**
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE DEVICES

RoHS
COMPLIANT

Description

- 5mm Superflux LED
- Emitting Color: Blue

Dimension figure

Unit: mm
Tolerances: ±0.25mm

Absolute Maximum Ratings

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	30	mA
Peak Forward Current *	I_{FP}	50	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_O	100	mW
Operating Temperature	T_{OPR}	-30 ~ +75	°C
Storage Temperature	T_{stg}	-30 ~ +80	°C
Lead Soldering Temperature	T_{SOL}	Max. 5 sec @ 260	°C

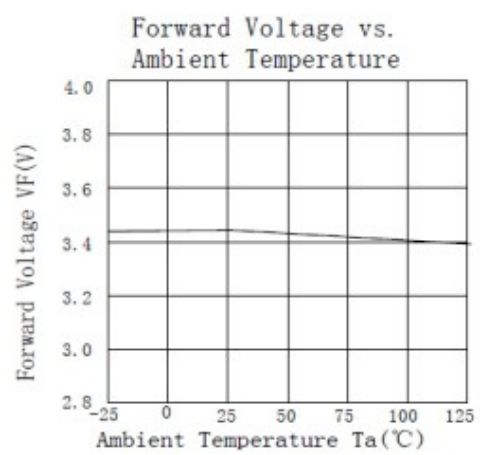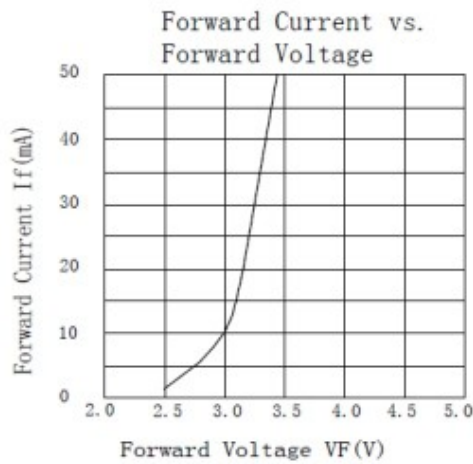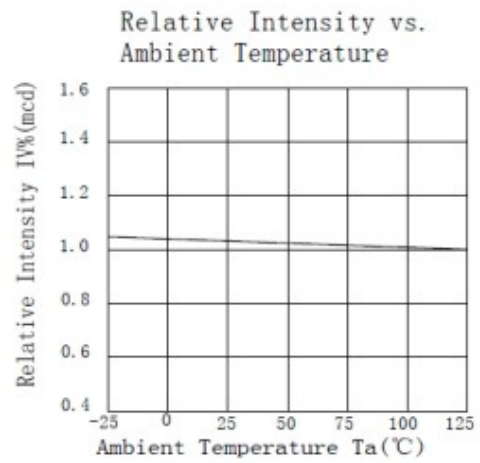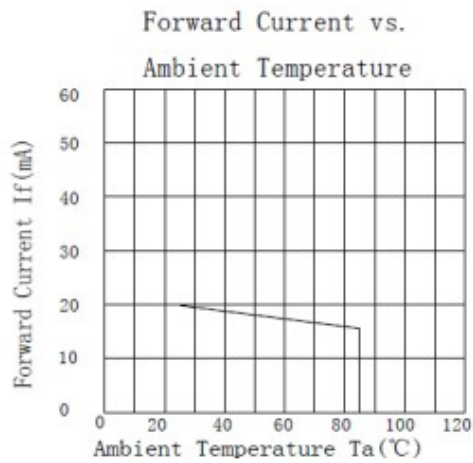*I_{FP} Conditions: 1/10 Duty Cycle, 0.1ms Puls Width

Typical Optical/Electrical Characteristics

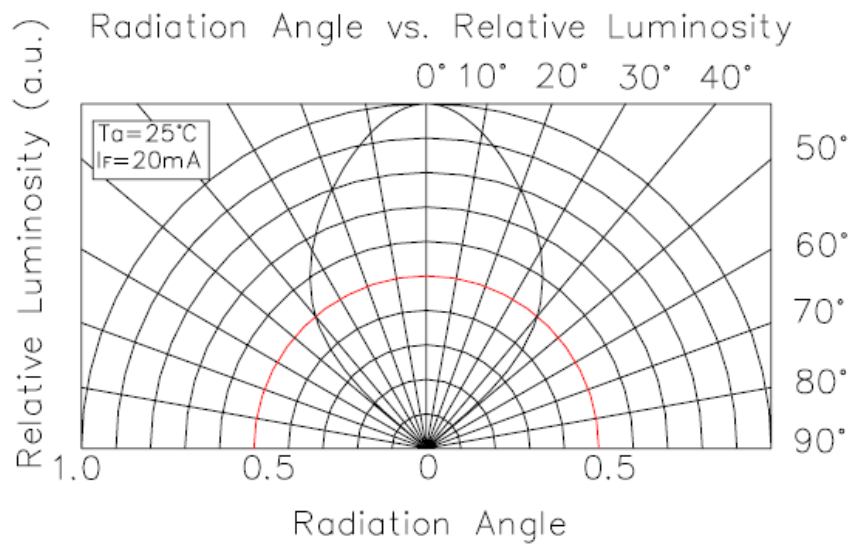| Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F		3	3,2	3,4	V
50% Power Angle			-	80	-	deg
Luminous Intensity	I_V		-	2		lm
Dominant Wavelength	λ_D		460	-	470	nm
Color Temperature	Tc		-	-	-	K
Recommended Forward Current	$I_{F(rec)}$		-	-	20	mA
Reverse Current	I_R	V_R=5V	-	-	10	µA

Notes:
1. It's strongly recommended to limit die temperature to 55°C
2. Absolute maximum ratings Ta=25°C
3. Measurement Tolerances of Forward Voltage ±0.1V
4. Measurement Tolerances of peak wavelength ±2.0nm
5. Measurement Tolerances of luminous intensity ±15%
6. Measurement Tolerances of angle intensity ±15%

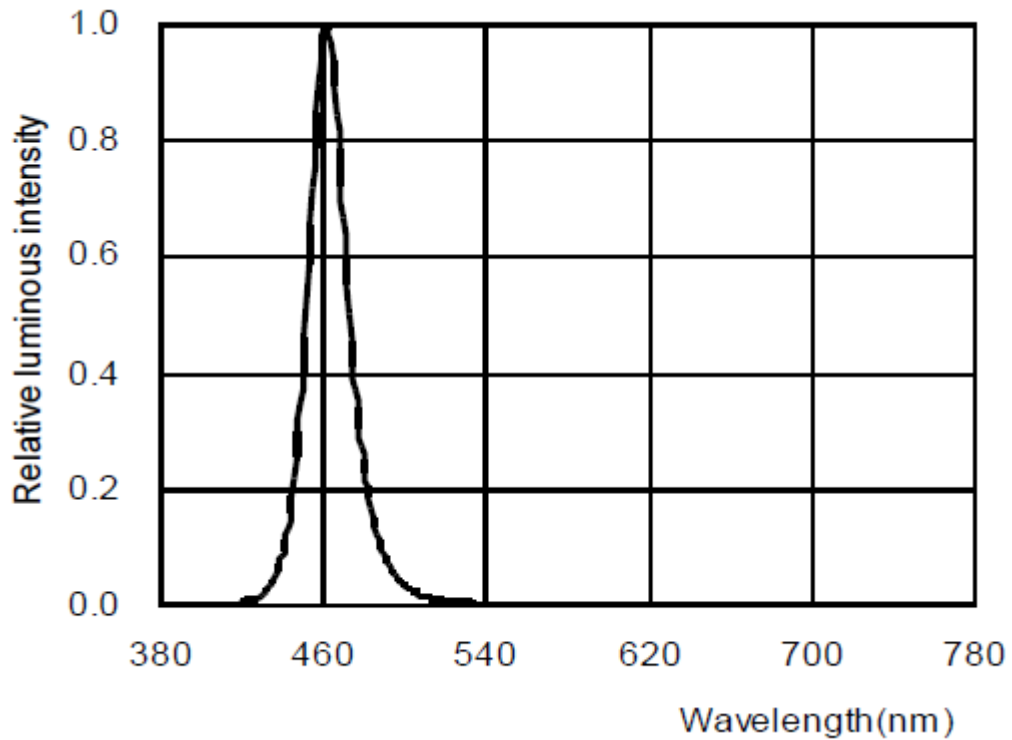# Typical electrical and optical characteristics

Forward Current vs. Ambient Temperature

Relative Intensity vs. Ambient Temperature

Forward Current vs. Forward Voltage

Forward Voltage vs. Ambient Temperature

Spatial Distribution

Radiation Angle vs. Relative Luminosity

Ta=25℃
IF=20mA

Spectrum

7. Warranty

Perform an acceptance inspection on arrival of the goods. Return the defectives if any stipulating the disqualification and quantity.

Embedding the LEDs into the application and the verification of life and other qualities in practical use shall be executed by user.

Seller shall not bear responsibility for any damages or defects caused by improper operation at the current in excess of the absolute maximum ratings that are not covered by warranty.

RoHS
COMPLIANT