PRODUCT SPECIFICATION

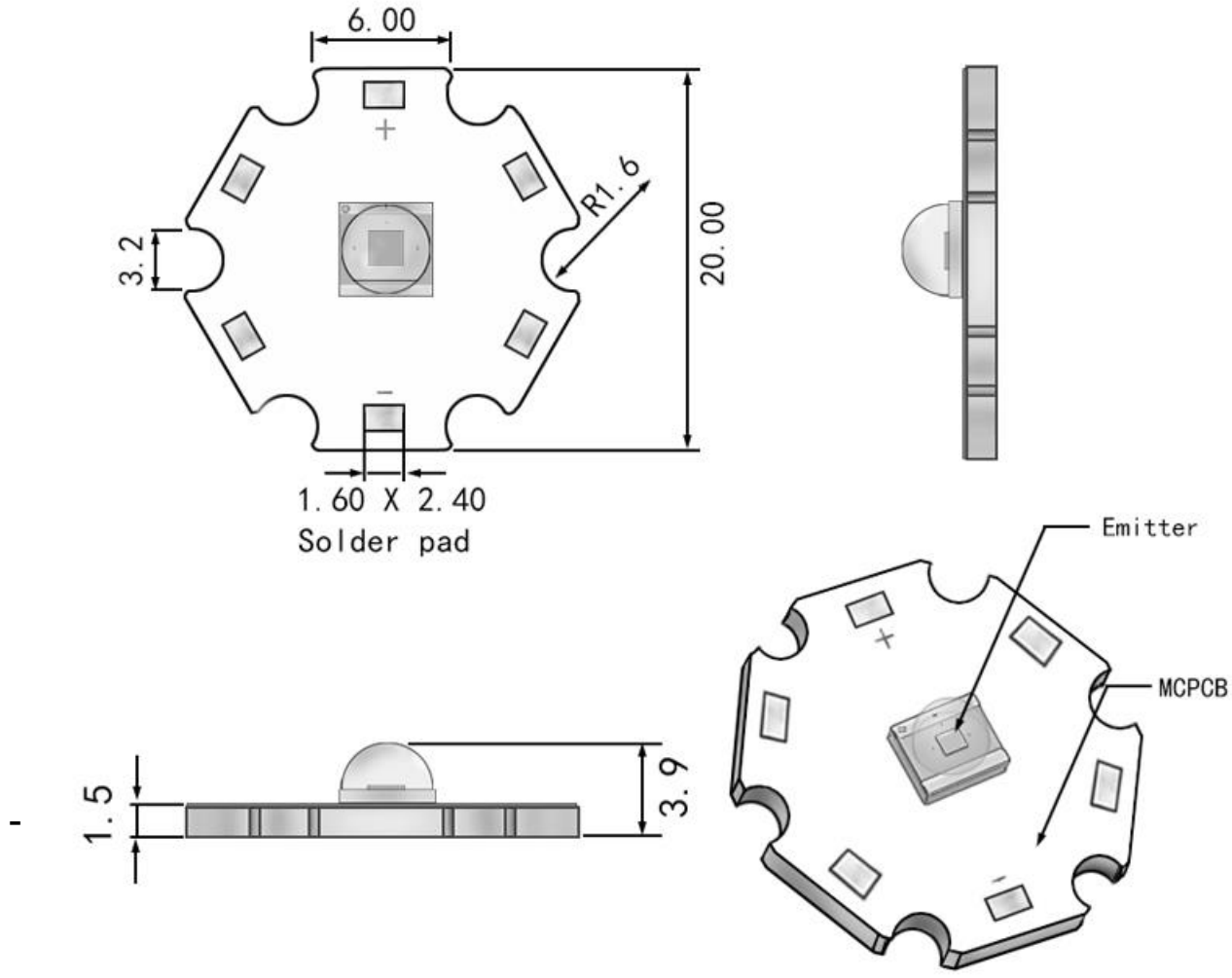
Part No. : SRC-13Y42GB-590GK
Ceramic LED

TABLE OF CONTENTS

1. Product Features

- High-Luminosity Amber LED
- Clear Silicone Dome Lens
- Viewing Angle: 120 °
- Die Material: AlGaInP
- Low Voltage DC Operated
- Board Material: Aluminum

2. Mechanical Dimensions



Notes:

1. Dimensions in millimeters (mm)

2. Dimension Tolerance: ± 0.1 mm

3. Absolute Maximum Rating @ Ta = 25 ℃

Parameter	Symbol	Maximum Rating	Unit
Continuous Forward Current	IF	700	mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFp	1000	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	3000	mW
Electrostatic Discharge	ESD	1000	V
Operating Temperature Range	TOPR	-25°C to +60°C	
Storage Temperature Range	TSTG	-35°C to +80°C	
Lead Soldering Temperature	TSOL	260°C	

4. Optical Character @ Ta = 25 ℃

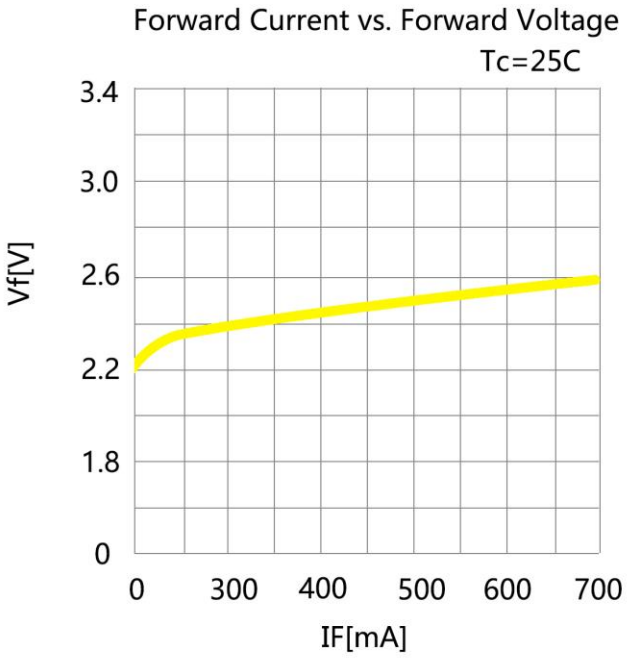
Parameter	Symbol	Color	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	VF	Y	2.2	2.4	2.6	V	I_F=700mA
Luminous Flux	Φ	Y	90	100	110	lm	I_F=700mA
Wavelength	Wld	Y	590	592.5	595	nm	I_F=700mA
Reverse Current	IR		0		10	μA	V_R=5V
Viewing Angle	2θ1/2			120		deg	I_F=700mA
Recommend Forward Current	IF(rec)	Y			700	mA	

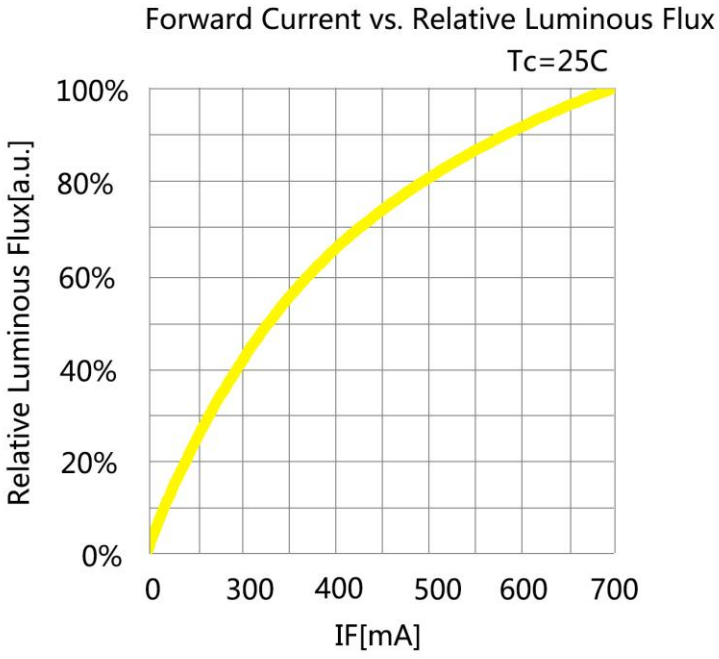
Notes:

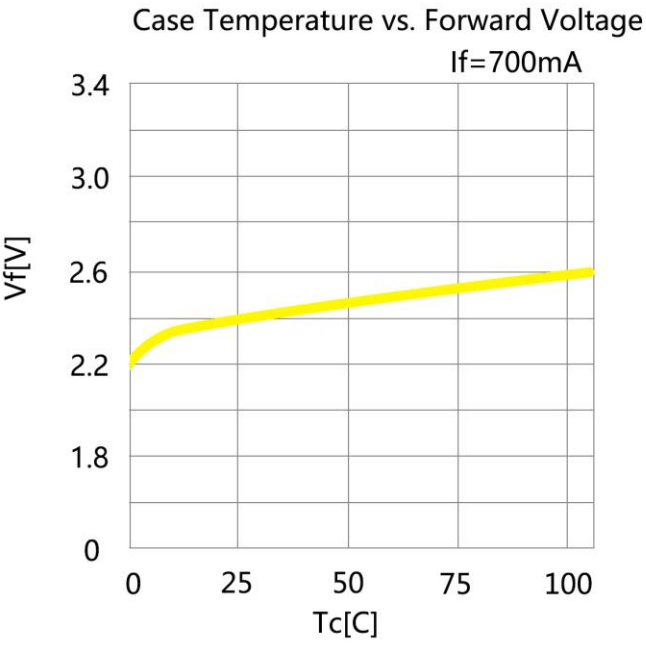
Forward Voltage Tolerance: ± 0.1 V

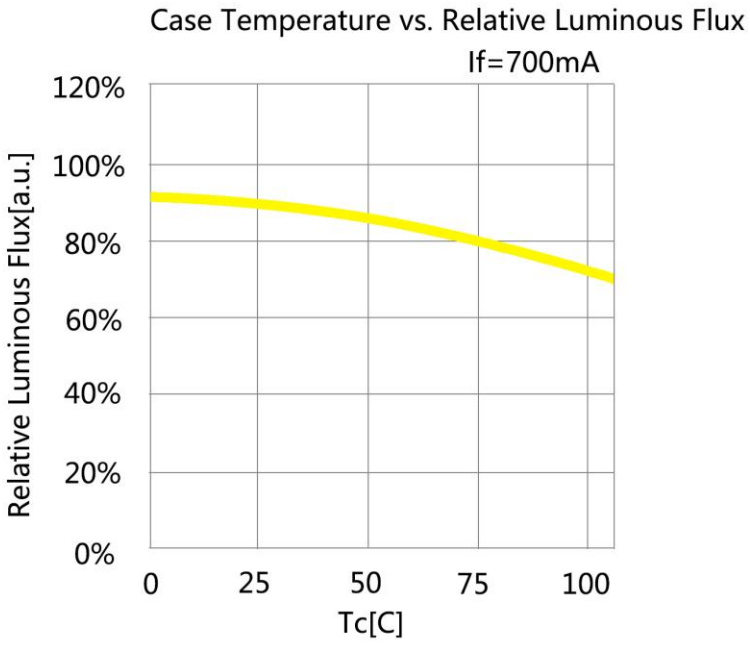
5. Optical Character Curves

(Unless otherwise specified, all values are measured at 25 ℃ ambient temperature)

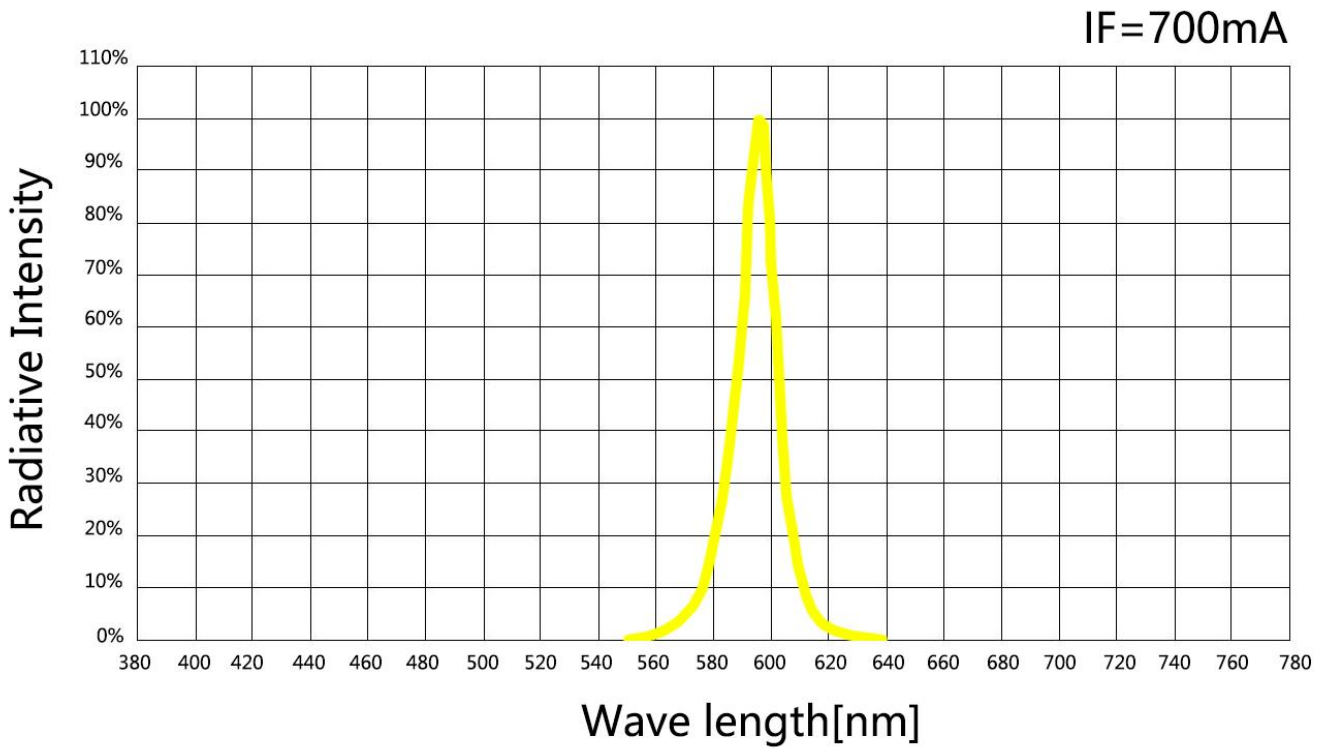




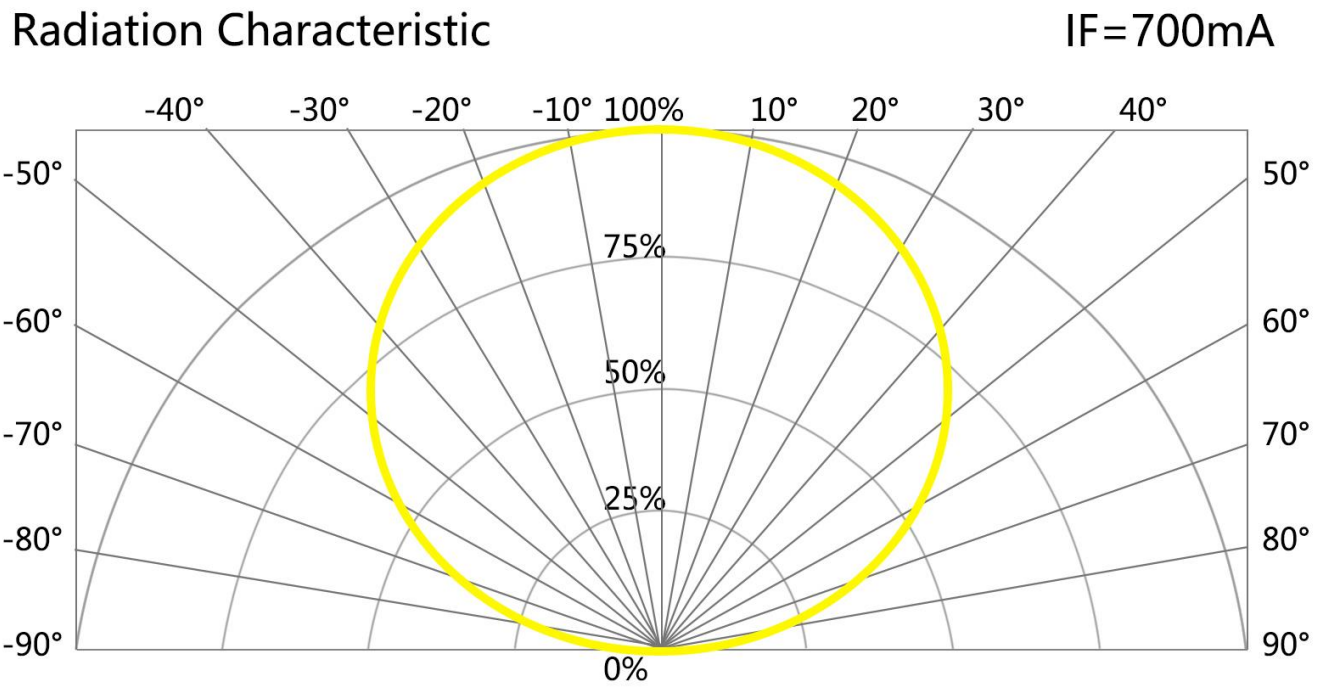




6. Spectrum Curves



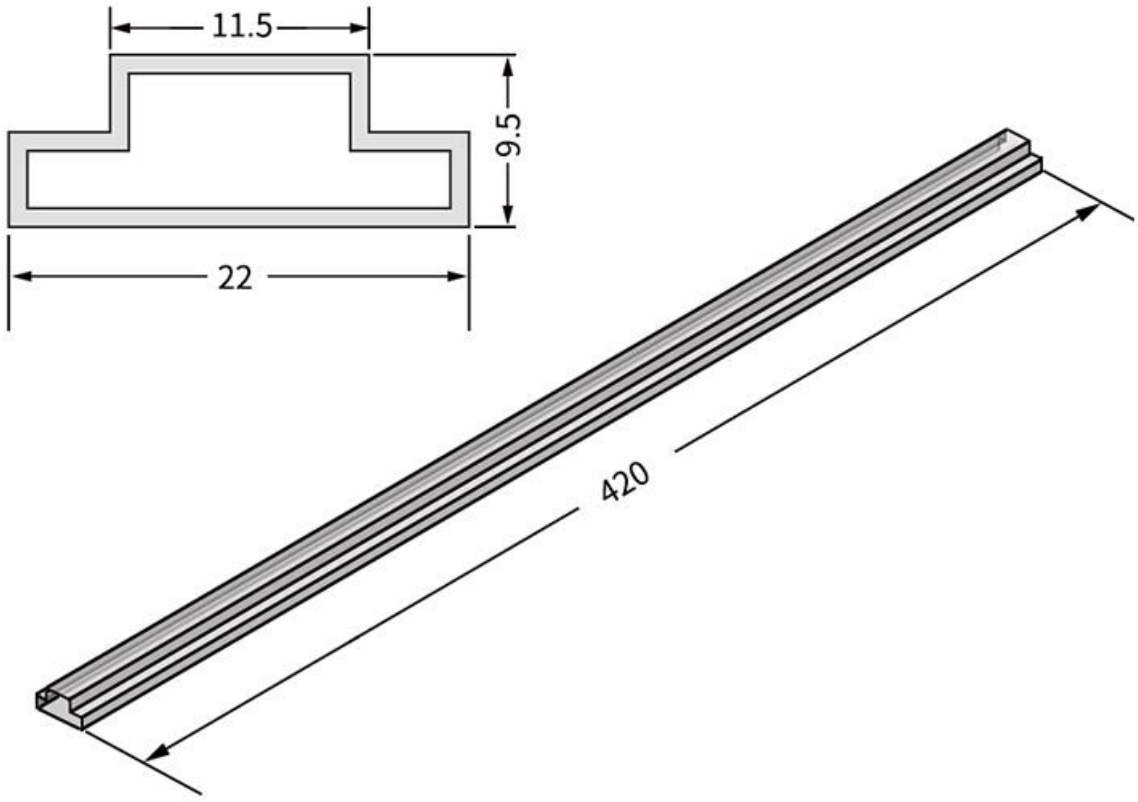
7. Viewing Angle Curves



8. Storage & Packaging

Storage & Handling Instructions for Unpacked LED Beads:

1. Immediate Use: Unpacked LED beads are recommended to be soldered within one day.
2. Short-Term Storage (Within 1 week): If not used immediately, re-vacuum seal and store in an environment with a temperature of 20-35 °C and 30-60% relative humidity. If re-vacuum sealing is not possible, store the LED beads in a moisture-proof box, maintaining 25±3 °C and 50-60% humidity.



Notes:

1. Quantity: 20pcs/tube
2. Dimensions in millimeters (mm)
3. Dimension Tolerance: ± 0.2 mm