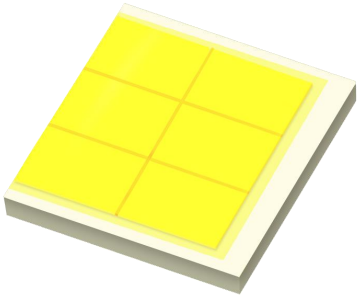
GoldiLED
LED JUST RIGHT

Preliminary

3535W12FC120-NUFEZW-B02

DATA SHEET



Approved by: Checked by: Prepared by:

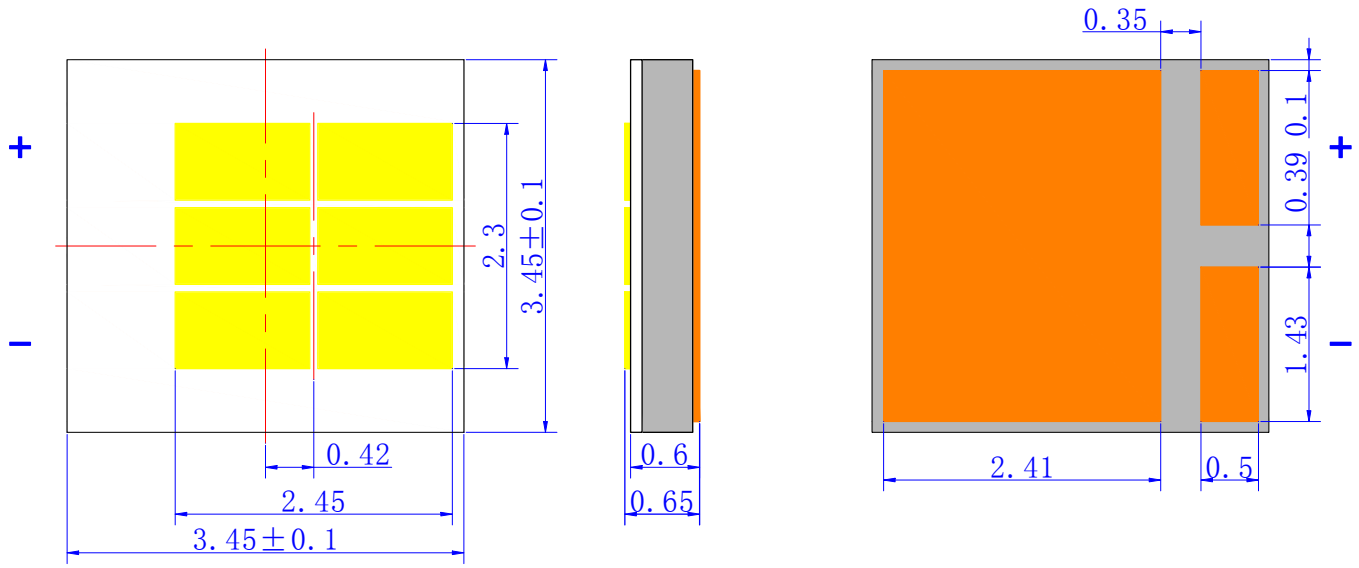
Features:

- Excellent Transiting Heat from LED Chip Operating under 1400mA
- High Luminous Output
- No UV

Typical purpose:

- Portable Flashlight
- Garden lighting
- General Lighting

Package Dimensions:



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25 mm (0.01”) unless otherwise noted.

Part NO.	Lens Color	Emitting Color
3535W12FC120-NUFEZW-B02	Water Clear	White

Absolute Maximum Ratings at Ta=25℃

Parameter	Symbol	Min	Typ	Max	Unit
LED Junction Temperature	Tj	—	—	140	℃
Power Dissipation	P_D	—	13	14	W
Continuous Forward Current	IF	—	1300	1400	mA
Reverse Voltage	V_R	—	5	—	V
Electrostatic Discharge Threshold (ESD)	ESD	—	2000	—	V
Operating Temperature Range	T_{opr}	-40	—	70	℃
Storage Temperature Range	T_{spr}	-40	—	100	

Notes:

1. Specifications are subject to change without notice.
2. Under the stipulated Characteristics parameters above, the life span of the LED is more than 50,000hours.
3. The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
4. Precautions for ESD:
   STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

Characteristics at If=1300mA (Ta=25°C)

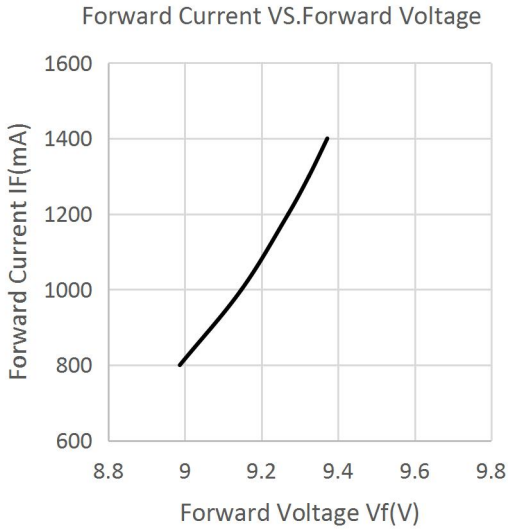
Parameter	Symbol	Values			Units
		Min.	Typ.	Max.	
Luminous Flux	Φ_v	1200	1400	—	lm
Viewing Angle at 50％IV	$2\theta_{1/2}$	—	120	—	Deg
Correlated Colour Temperature	CCT	6000	6300	7000	K
Forward Voltage	V_f	9.0	9.5	10.0	V
Reverse Current	I_R	—	—	—	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	3.45	—	K/W
Temperature Coefficient of Forward Voltage	V△F/T	—	-6	—	mV/℃
Color rendering index	Ra	—	—	—	—

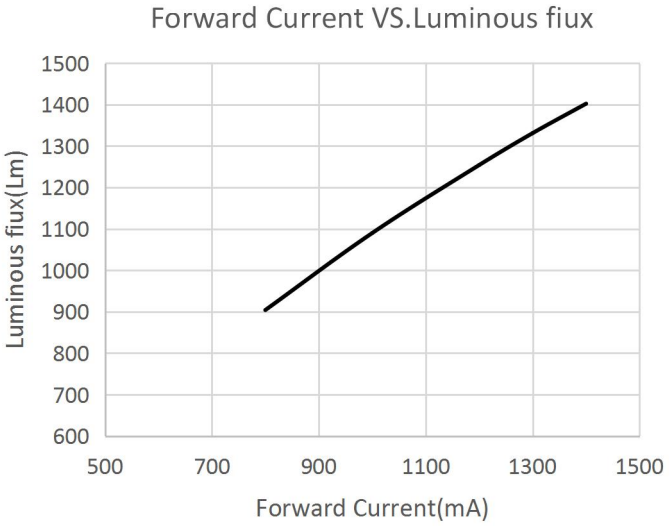
Notes:

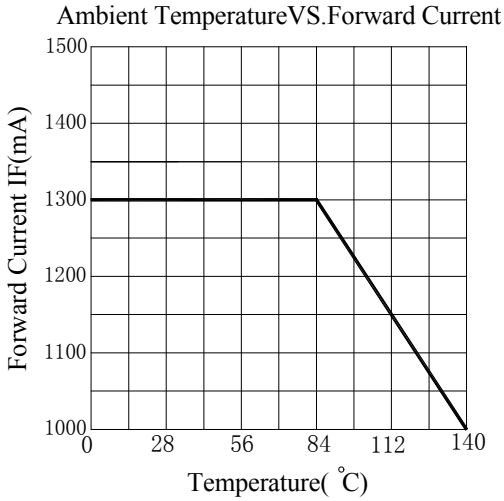
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity
3. The dominant wavelength (λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
4. Flux is measured with an accuracy of ±15%.
5. Forward voltage is measured with an accuracy of ±0.15V.

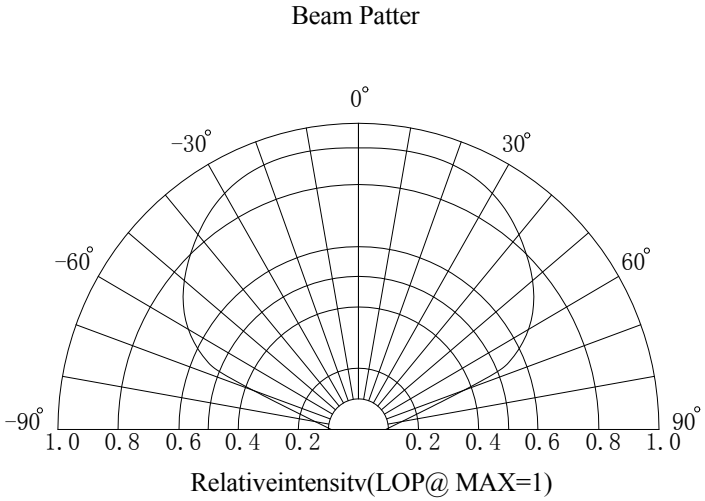
Typical Electrical / Optical Characteristics Curves

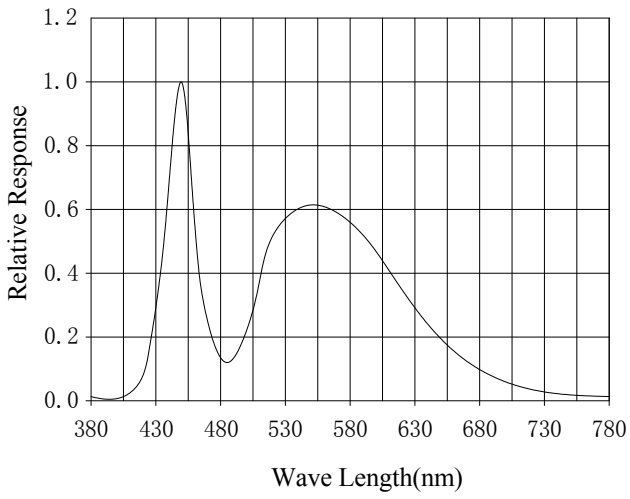
(25℃ Ambient Temperature Unless Otherwise Noted)











PRECAUTION IN USE

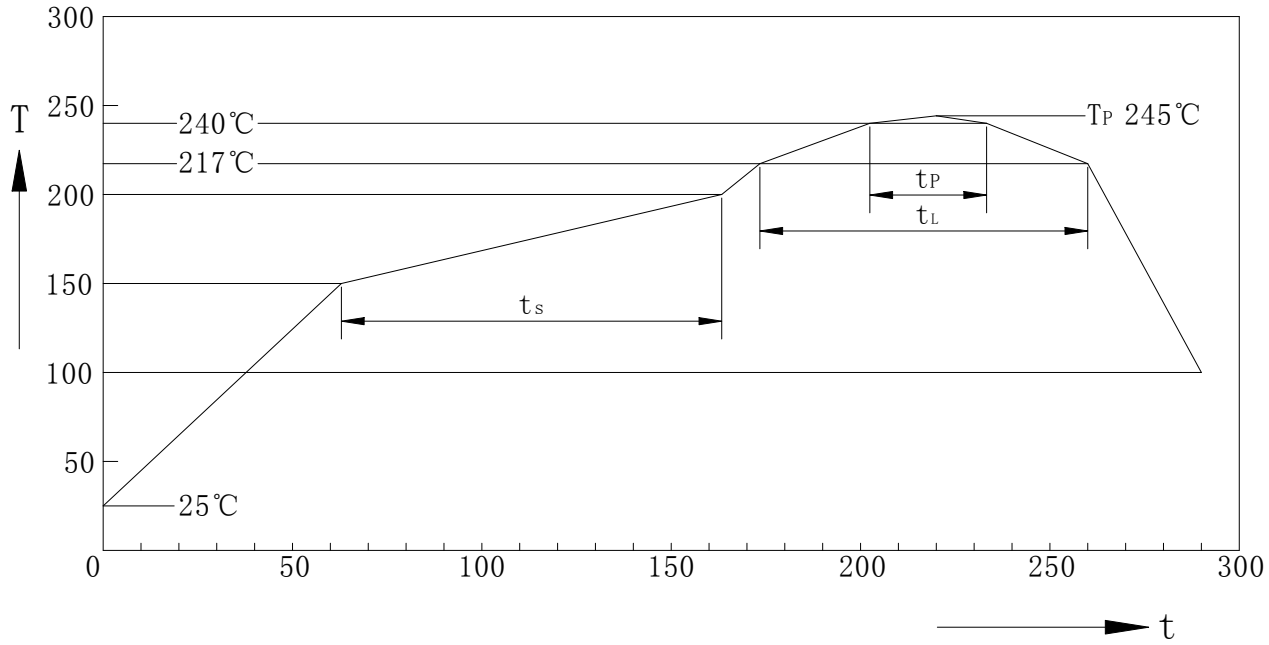
Storage

Recommended storage environment

Temperature: 5℃ ~ 30℃ (41oF ~ 86oF)

Humidity: 60% RH Max.

Soldering

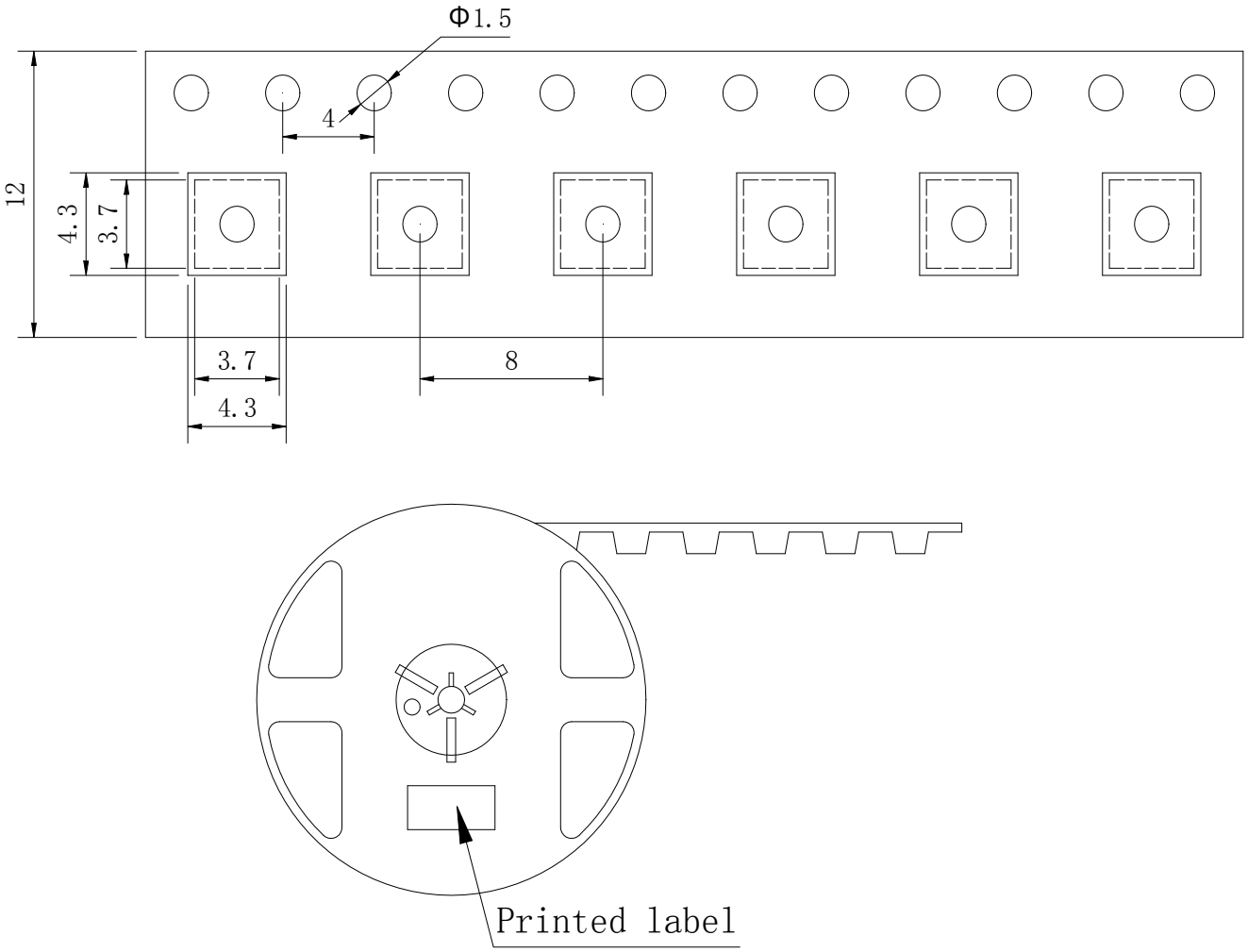


Profil-Charakteristik Profile Feature	Symbol	Pb-Free(SnAgCu)Assembly			Einheit Unit
		Minimum	Recommendation	Maximum	
Ramp-up Rate to Preheat 25℃ to 150℃	-	-	2	3	K/s
Time t_s T_{Smin} to T_{Smax}	t_s	60	100	120	s
Ramp-up Rate to Peak T_{Smax} to T_p	-	-	2	3	K/s
Liquidus Temperature	T_L	217			℃
Time above Liquidus temperature	t_L	-	80	100	s
Peak Temperature	T_P	-	245	260	℃
Time within 5℃ of the specified peak temperature T_p-5 K	t_P	10	20	30	s
Ramp-down Rate T_p to 100℃	-	-	3	6	K/s
Time 25℃ to T_p	-	-	-	480	-

Notes: All temperatures refer to the center of the package, measured on the top of the component.

Dimensions for Cannulation and Packaging

Quantity: 1000 PCS



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±2.0 mm (0.08”) unless otherwise noted.
3. Product is packaged with silica gel to protect the light-emitting zone. Please avoid the light-emitting area from being pressed, stressed, rubbed, come into contact with sharp metal part which would damage the product.