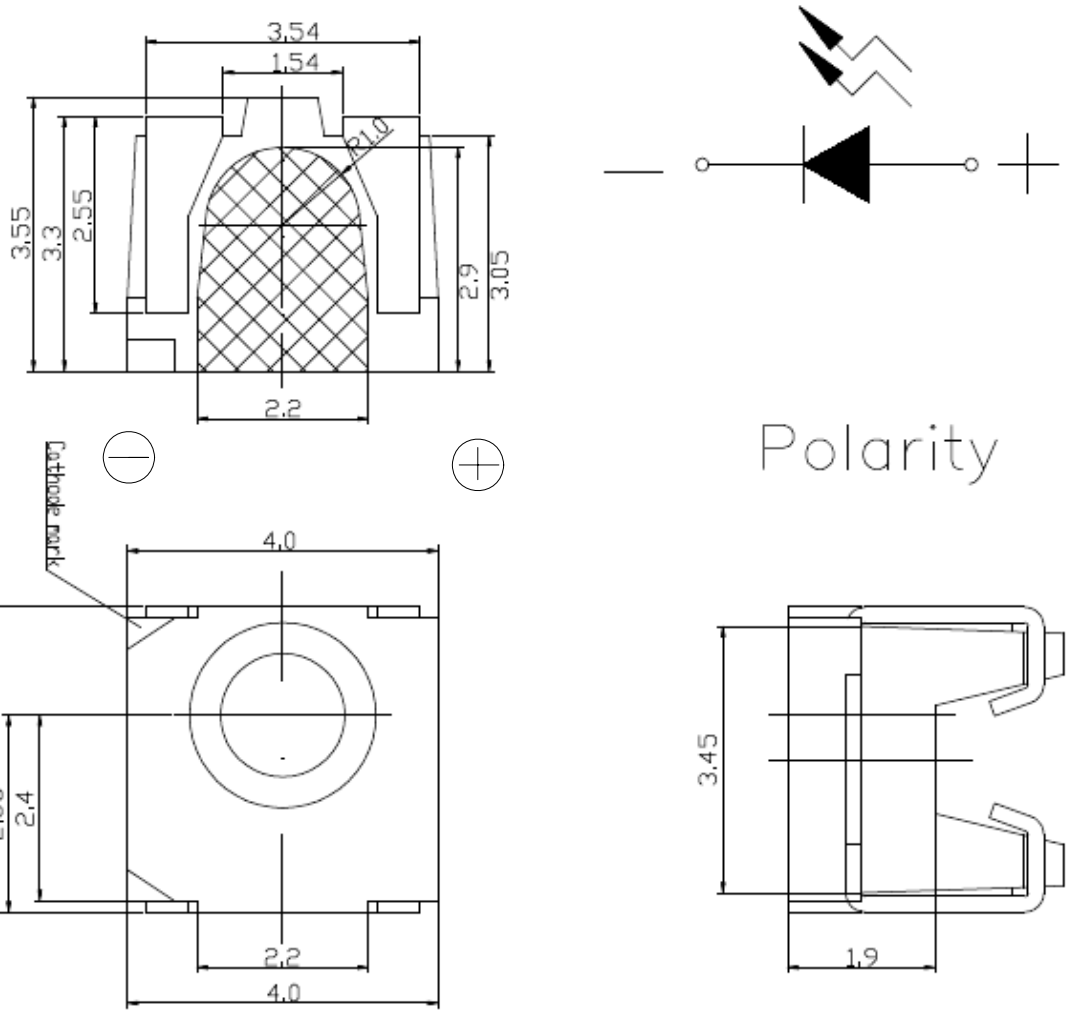
SHARLIGHT ELECTRONICS CO., LTD.

SPECIFICATION FOR APPROVAL

Part No.：SLM-160SNB40-EV

Package Dimensions



Part NO.	Chip Material	Lens Color	Emission Color
SLM-160SNB40-EV	InGaN	Water Clear	BLUE

Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is ±0.25mm(.010") unless otherwise noted.

3. Protruded resin under flange is 1.0mm(.04") max.

4. Lead spacing is measured where the leads emerge from the package.

5. Specifications are subject to change without notice.

6. HBM, Human Body Model; Seller gives no other assurances regarding the ability of products to withstand ESD.

Caution in ESD:

Static Electricity and surge damages the LED. It is recommend to us a wrist band or anti-electrostatic glove when handing the LED. All devices, equipment and machinery must be properly grounded.

LISTER：王蓁顥 07-08-11	EDITOR：周素華 07-08-11	DATE：07-08-11	REV：A

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Part No.：SLM-160SNB40-EV

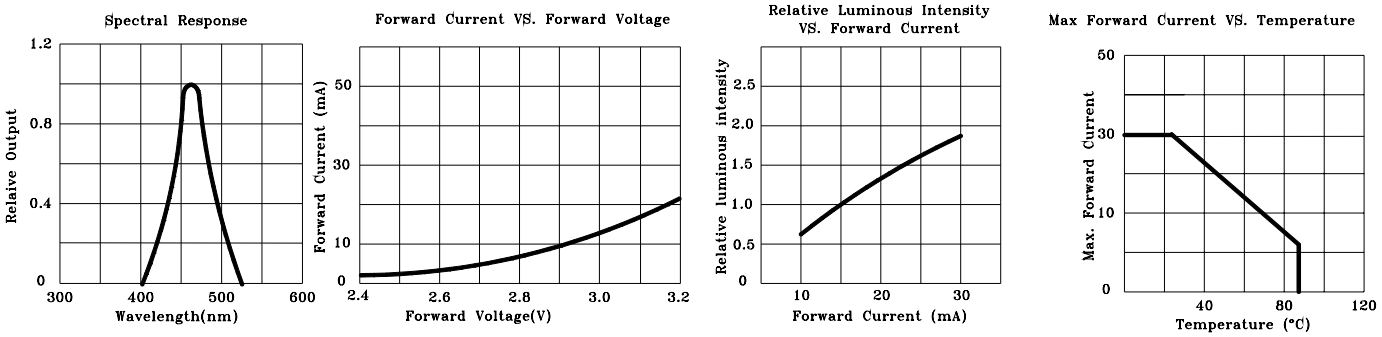
Absolute Maximum Ratings at TA=25℃

Parameter	Maximum Rating	Unit
Power Dissipation	110	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	30	mA
Reverse Voltage	5	V
Electrostatic Discharge(ESD)	1000	V
Operating Temperature Range	-40℃ to + 85℃	
Storage Temperature Range	-40℃ to +90℃	
Lead Soldering Temperature	Reflow Soldering : 260℃ for 10 Seconds Hand Soldering : 350℃ for 3 Seconds	

Electrical / Optical Characteristics at TA=25℃

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_V	180		450	mcd	IF = 20mA
Viewing Angle	$2\theta_{1/2}$		120		deg	IF = 20mA
Peak Emission Wavelength	λP		468		nm	IF = 20mA
Dominant Wavelength	λd	464		476	nm	IF = 20mA
Spectral Line Half-Width	$\Delta\lambda$		25		nm	IF = 20mA
Forward Voltage	V_F		3.0	3.95	V	IF = 20mA
Reverse Current	IR			10	μA	VR=5V

TYPICAL ELECTRON-OPTICAL CHARACTERISTIC CURVES
25°C Free Air Temperature Unless Otherwise Specified



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Part No.：SLM-160SNB40-EV

Bin Range of Dominant Wavelength

Groups	Bin	Min	Max	Unit	Condition
A	A9	464.5	467.5	nm	I_F=20mA
	A10	467.5	470.5		
	A11	470.5	473.5		
	A12	473.5	476.5		

Bin Range of Luminous Intensity

Bin Code	Min.	Max.	Unit	Conduction
S1	180	225	mcd	I_F=20mA
S2	225	285		
T1	285	360		
T2	360	450		

Bin Range of Forward Voltage

Groups	Bin	Min	Max	Unit	Condition
M	5	2.75	3.05	volt	I_F=20mA
	6	3.05	3.35		
	7	3.35	3.65		
	8	3.65	3.95		

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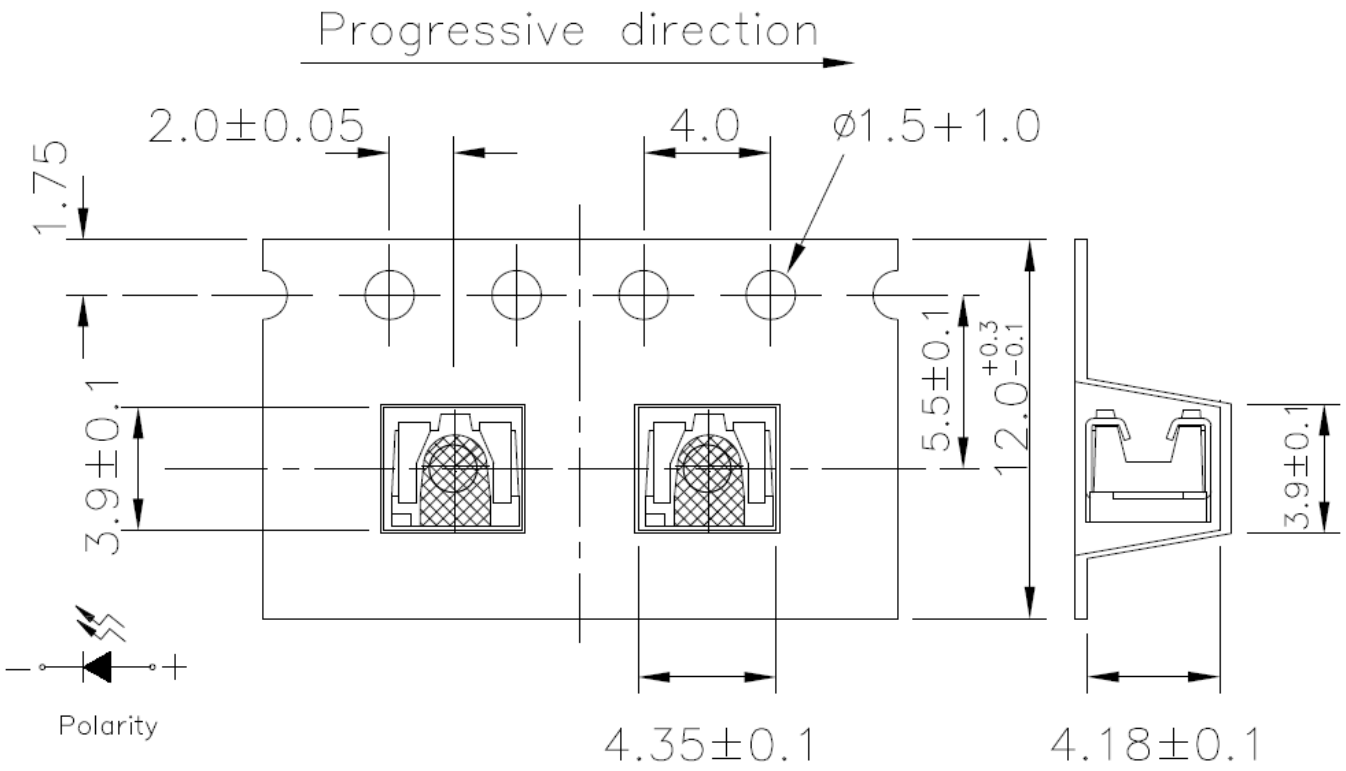
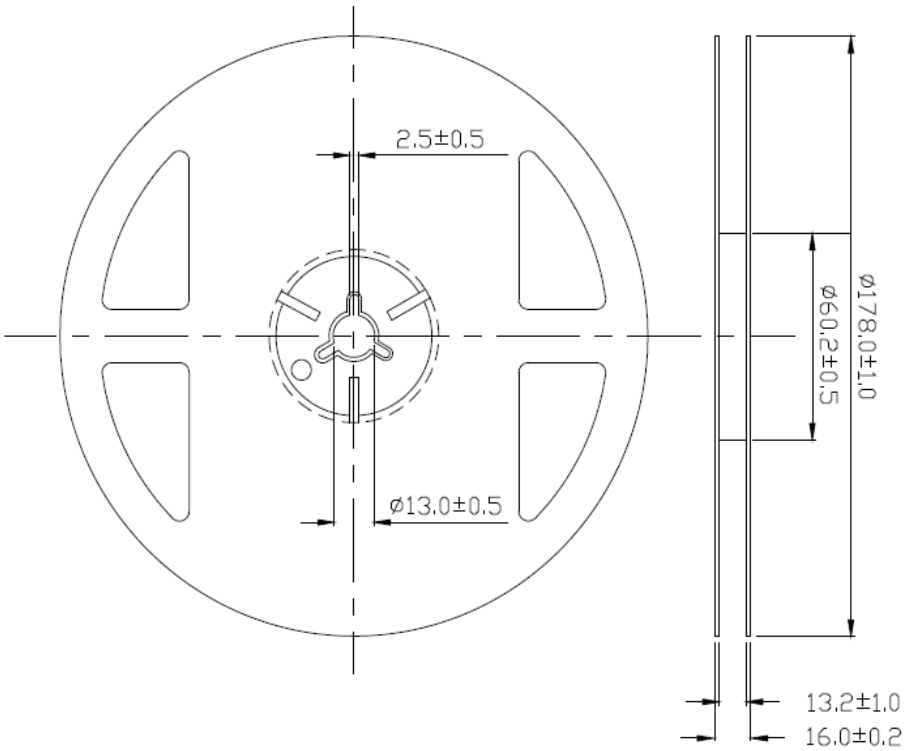
Carrier Tape Dimensions: Loaded Quantity 500 pcs. Per Reel



Reel Dimensions



Note: Tolerance unless mentioned is ±0.1mm, unit = mm.

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※Note：

Recommended storage conditions：

1. Storage Condition:

 a. don't open the sealed bag until the Reflow Soldering。

 b. before open the sealed bag, please keep bag at Ambient Temperature from 5 to 25°C and Relative Humidity < 60%。

 c. storage life: within 6 months。

2. Once overdue the storage life or after open the sealed bag for 12 hours, the LED has to be oven at 70°C for 24 hours before the Reflow Soldering。

3. After oven the LED, the Reflow Soldering has to be completed within 12 hours.。

 Otherwise, the oven LED has to be sealed in bag again and storage at Ambient Temperature of 23 +/- 5°C & RH 5~30%。