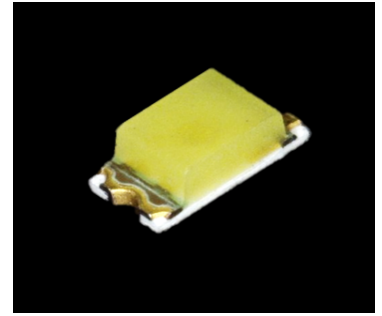


## ■ Features

- Long life exceeding 90% residual luminous rate even after 1,000hrs (Ta=85°C,IF=20mA)

## ■ Outline

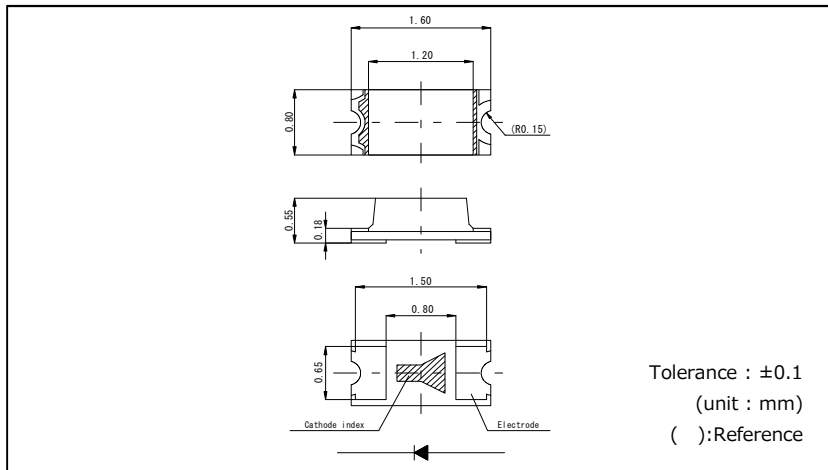


## ■ Size

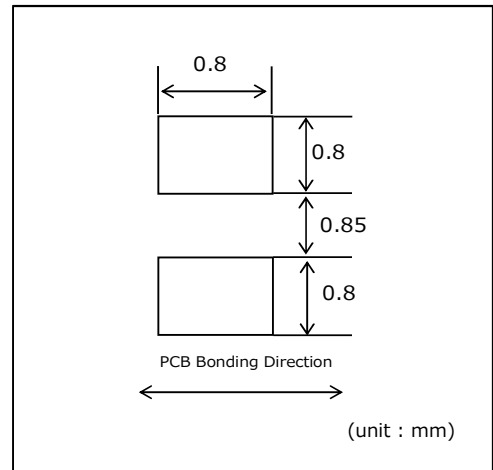
1608 (0603)  
1.6 × 0.8mm (t=0.55mm)



## ■ Dimensions



## ■ Recommended Solder Pattern



## ■ Specifications

Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)					Electrical and Optical Characteristics (Ta=25°C)															
			Power Dissipation P <sub>D</sub> (mW)	Forward Current I <sub>F</sub> (mA)	Peak Forward Current I <sub>FP</sub> (mA)	Reverse Voltage V <sub>R</sub> (V)	Operating Temp. T <sub>opr</sub> (°C)	Storage Temp. T <sub>stg</sub> (°C)	Forward Voltage V <sub>F</sub>		Reverse Current I <sub>R</sub>		Dominant Wavelength λ <sub>D</sub> / Chromaticity coordinate(x,y)			Luminous Intensity I <sub>v</sub>							
				Typ.	I <sub>F</sub>	Max.			V <sub>R</sub>	Min.*2	Typ.	Max.*2	I <sub>F</sub>	Min.	Typ.	I <sub>F</sub>							
<span style="color: green;">■</span> SMLD12EN1W	InGaN	Green	70				-40 ~ +100	-40 ~ +100	3.0				520	527	535	5	56	140	5				
<span style="color: lightblue;">■</span> SMLD12E2N1W		Blue Green																					
<span style="color: teal;">■</span> SMLD12E3N1W			66	20	100*1	5					2.9	5	10	5	490		496	502			56	85	
<span style="color: blue;">■</span> SMLD12BN1W		Blue													-		470.0	-			14	40	
<span style="color: gray;">■</span> SMLD12WBN1W *3		White													(x,y)(0.295, 0.280)			56		120			

\*1 : 1/10,1kHz \*2 : Measurement tolerance:±1nm. \*3: Brightness for white color is noted with chromaticity coordinate(x,y).

■ Electrical Characteristics Curves

Reference

Fig.1 Forward Current - Forward Voltages

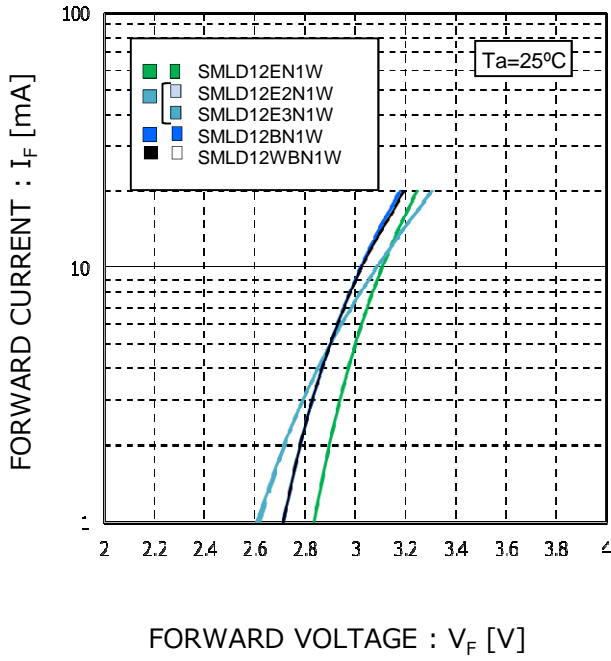


Fig.2 Luminous Intensity - Atmosphere Temperature

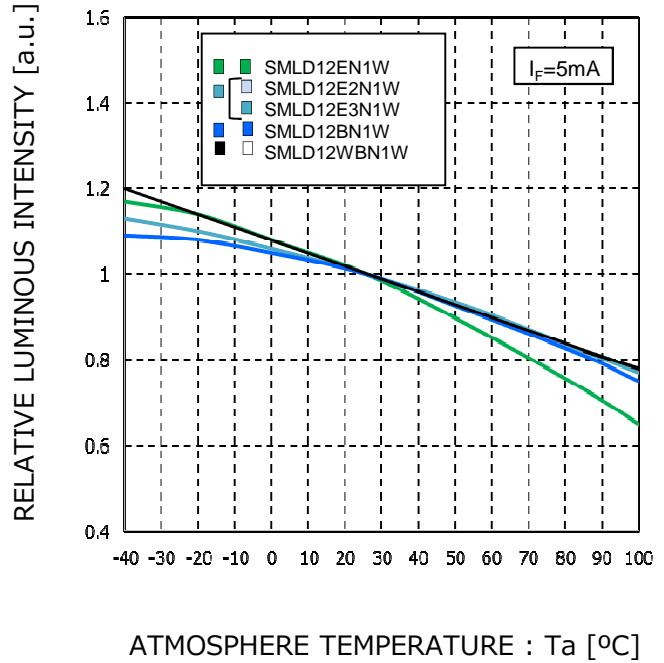


Fig.3 Luminous Intensity - Forward Current

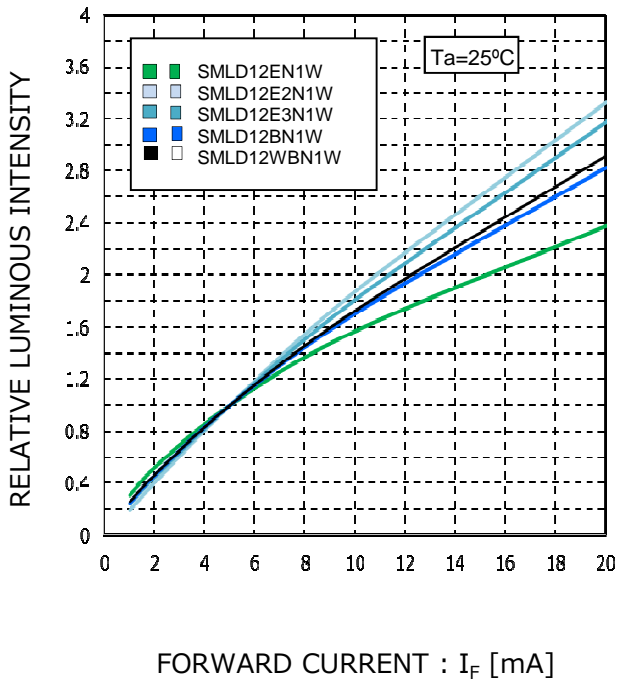
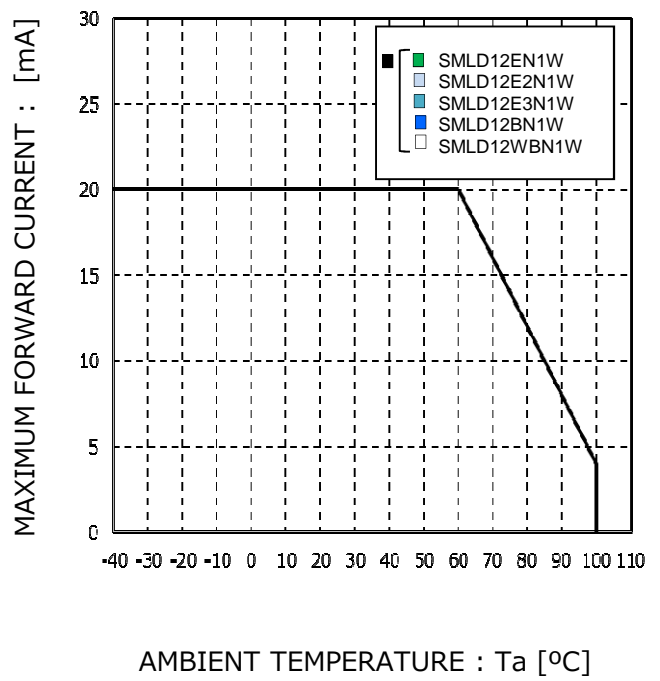
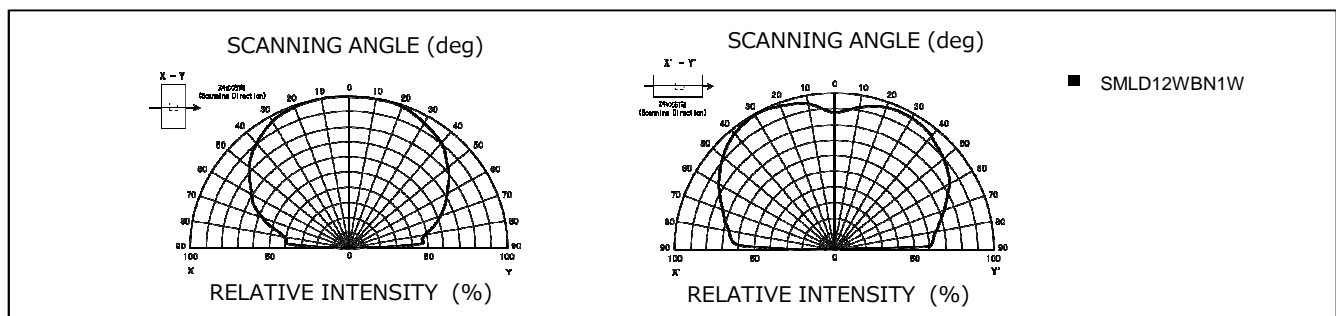
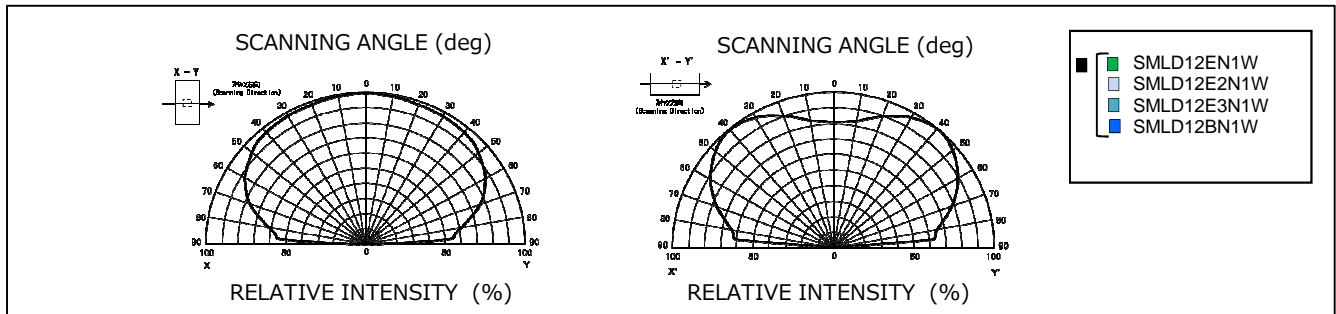


Fig.4 Derating



■ Viewing Angle

Reference



■ Rank Reference of Brightness\*

\*Measurement tolerance: ±10%

Green (E) , Blue Green (E2/E3)

(Ta=25°C, If=5mA)

Rank	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z
lv (mcd)	3.6~5.6	5.6~9.0	9~14	14~22	22~36	36~56	56~90	90~140	140~220	220~360	360~560	560~900	900~1400	1400~2200	2200~3600
SMLD12EN1W															
SMLD12E2N1W															
SMLD12E3N1W															

Blue(B)

(Ta=25°C, If=5mA)

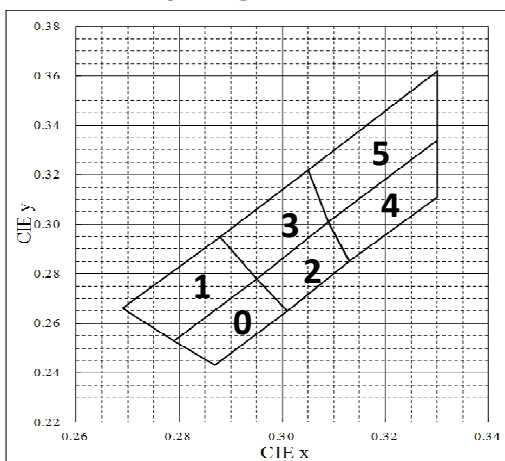
Rank	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z
lv (mcd)	3.6~5.6	5.6~9.0	9~14	14~22	22~36	36~56	56~90	90~140	140~220	220~360	360~560	560~900	900~1400	1400~2200	2200~3600
SMLD12BN1W															

White(WB)

(Ta=25°C, If=5mA)

Rank	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z
lv (mcd)	3.6~5.6	5.6~9.0	9~14	14~22	22~36	36~56	56~90	90~140	140~220	220~360	360~560	560~900	900~1400	1400~2200	2200~3600
SMLD12WB1W															

■ Chromaticity Diagram

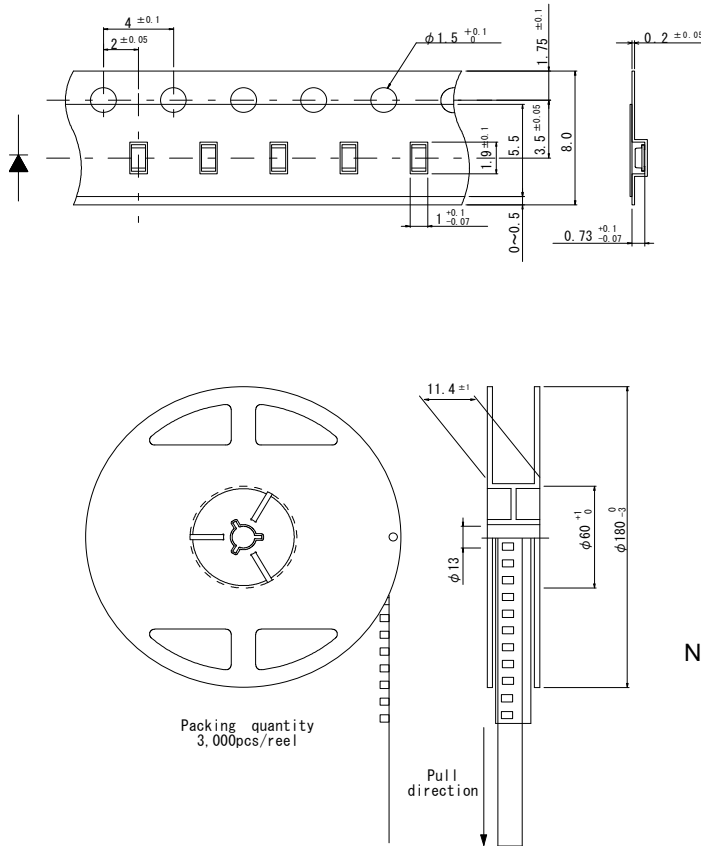


( T a = 25°C、If=5mA)

0		1		2		3		4		5	
x	y	x	y	x	y	x	y	x	y	x	y
0.287	0.243	0.279	0.253	0.301	0.265	0.295	0.278	0.313	0.285	0.309	0.301
0.279	0.253	0.269	0.266	0.295	0.278	0.288	0.295	0.309	0.301	0.305	0.322
0.295	0.278	0.288	0.295	0.309	0.301	0.305	0.322	0.330	0.334	0.330	0.362
0.301	0.265	0.295	0.278	0.313	0.285	0.309	0.301	0.330	0.311	0.330	0.334

Measurement tolerance : ±0.02

■ Taping(T86)



Unit:mm

Note)Tolerance is within ±0.2mm unless otherwise specified.

■ Part No. Construction

Special Code will be applied for  
Emitting color WB/B/E series.

Chromaticity rank  
(for white LED)

Rank sign  
(Brightness Rank)\*

S	M	L	D	1	2	E	N1	W	T	8	6		R
Series name			Package Type	Chip type	Emitting Color	Resin Color	Taping Specification						

SML Chip LED	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>P1</td><td>1.0x0.6 t=0.2mm</td></tr> <tr><td>E1/EN</td><td>1.6x0.8 t=0.36mm</td></tr> <tr><td>D1</td><td>1.6x0.8 t=0.55mm</td></tr> <tr><td>H1</td><td>2.0x1.25 t=0.8mm</td></tr> <tr><td>M1</td><td>2.0x1.25 t=0.8mm</td></tr> <tr><td>O1</td><td>3.0x2.0 t=1.3mm</td></tr> <tr><td>Z1/ZN</td><td>3.5x2.8 t=1.9mm</td></tr> <tr><td>A1</td><td>1.6x1.15 t=0.55mm</td></tr> <tr><td>B1/B2</td><td>3.4x1.25 t=1.1mm</td></tr> <tr><td>K1</td><td>4.5x2.0 t=0.6mm</td></tr> <tr><td>S1</td><td>3.2x1.6 t=1.85mm</td></tr> <tr><td>P2</td><td>1.0x1.0 t=0.2mm</td></tr> <tr><td>S2</td><td>1.3x1.5 t=0.6mm</td></tr> <tr><td>P34</td><td>1.0x1.0 t=0.2mm</td></tr> <tr><td>P36</td><td>1.5x1.0 t=0.2mm</td></tr> <tr><td>VN</td><td>3.5x2.8 t=0.6mm</td></tr> </table>	P1	1.0x0.6 t=0.2mm	E1/EN	1.6x0.8 t=0.36mm	D1	1.6x0.8 t=0.55mm	H1	2.0x1.25 t=0.8mm	M1	2.0x1.25 t=0.8mm	O1	3.0x2.0 t=1.3mm	Z1/ZN	3.5x2.8 t=1.9mm	A1	1.6x1.15 t=0.55mm	B1/B2	3.4x1.25 t=1.1mm	K1	4.5x2.0 t=0.6mm	S1	3.2x1.6 t=1.85mm	P2	1.0x1.0 t=0.2mm	S2	1.3x1.5 t=0.6mm	P34	1.0x1.0 t=0.2mm	P36	1.5x1.0 t=0.2mm	VN	3.5x2.8 t=0.6mm	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>0</td><td>Standard Type</td></tr> <tr><td>1</td><td>Low Current Type</td></tr> <tr><td>2</td><td>High Brightness type</td></tr> <tr><td>3</td><td rowspan="5">Ultra High Brightness type</td></tr> <tr><td>4</td></tr> <tr><td>5</td></tr> <tr><td>6</td></tr> <tr><td>7</td></tr> <tr><td>8</td><td></td></tr> </table>	0	Standard Type	1	Low Current Type	2	High Brightness type	3	Ultra High Brightness type	4	5	6	7	8		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>V</td><td>Red</td></tr> <tr><td>U</td><td>Red</td></tr> <tr><td>U2</td><td>Red</td></tr> <tr><td>D</td><td>Orange</td></tr> <tr><td>Y3</td><td>Yellow</td></tr> <tr><td>Y2</td><td>Yellow</td></tr> <tr><td>Y</td><td>Yellow</td></tr> <tr><td>W</td><td>Yellow</td></tr> <tr><td>M2</td><td>Yellow green</td></tr> <tr><td>M</td><td>Yellow green</td></tr> <tr><td>F</td><td>Green</td></tr> <tr><td>P</td><td>Green</td></tr> <tr><td>E</td><td>Green</td></tr> <tr><td>E2/E3</td><td>Blue Green</td></tr> <tr><td>B</td><td>Blue</td></tr> <tr><td>WB</td><td>White</td></tr> <tr><td>T</td><td>Phototransistors</td></tr> <tr><td>RGB</td><td>Red/Green/Blue</td></tr> </table>	V	Red	U	Red	U2	Red	D	Orange	Y3	Yellow	Y2	Yellow	Y	Yellow	W	Yellow	M2	Yellow green	M	Yellow green	F	Green	P	Green	E	Green	E2/E3	Blue Green	B	Blue	WB	White	T	Phototransistors	RGB	Red/Green/Blue	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>T</td><td>Transparent Colorless</td></tr> <tr><td>W</td><td>Milkey White</td></tr> <tr><td>B</td><td>Black</td></tr> </table>	T	Transparent Colorless	W	Milkey White	B	Black	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>T86</td><td>Cathode at sprocket hole side(the top)</td></tr> <tr><td>T87</td><td>Anode at sprocket hole side(the top)</td></tr> <tr><td>1</td><td>For white LED,</td></tr> <tr><td>3</td><td>csthode at sprocket hole side</td></tr> </table> <p style="text-align: center;">notice) S1 series, 81 seires</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>T86</td><td>Cathode at sprocket hole side(the back)</td></tr> <tr><td>T68</td><td>Cathode at sprocket hole side(the top)</td></tr> </table>	T86	Cathode at sprocket hole side(the top)	T87	Anode at sprocket hole side(the top)	1	For white LED,	3	csthode at sprocket hole side	T86	Cathode at sprocket hole side(the back)	T68	Cathode at sprocket hole side(the top)
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SCM Chip LED	01 3.0x1.5 t=2.2mm
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\*Concerning the Brightness rank.  
\*Please refer to the rank chart above for luminous intensity classification.  
\*Part name is individual for each rank.  
\*When shipped as sample,the part name be a representative part name.  
General products are free of ranks.  
Please contact sales if rank appointment is needed.

■ Packing Specification

ROHM LED products are being shipped with desiccant (silica gel) included in moisture-proof bags. Pasting the moisture sensitive label on the outer surface of the moisture-proof bags or enclosing the humidity indication card inside the bag is available upon request. Please contact the nearest sales office or distributor if necessary.

## ■ Precaution (Surface Mount Device)

### 1. Storage

If the product is heated during the reflow under the condition of hygroscopic state, it may vaporize and expand which will influence the performance of the product.

Therefore, the package is waterproof. Please use the product following the conditions:

#### •Using Conditions

Classification	Temperature	Humidity	Expiration Date	Remark
① Before using	5~30°C	30~70%RH	Within 1 year from Receiving	Storage with waterproof package
② After opening package	5~30°C	Below 70%RH	Within 168h	Please storing in the airtight container with our desiccant (silica gel)

#### •Baking

Bake the product in case of below:

① The expiration date is passed.

② The color of indicator (silica gel) turned from blue to colorless or from green to pink.

(Even if the product is within the expiration date.)

#### •Baking Conditions

Temperature	Time	Humidity
60±3°C	12~24h	Below 20%RH
Remark	<ul style="list-style-type: none"> <li>• Bake products in reel.</li> <li>• Reel and embossed tape are easy to be deformed when baking, so please try not to apply stress on it.</li> <li>• Recommend bake once.</li> </ul>	

## 2. Application Methods

### 2 – 1. Precaution for Drive System and Off Mode

Design the circuit without the electric load exceeding the ABSOLUTE MAXIMUM RATING that applies on the products. If drive by constant voltage, it may cause current deviation of the LED and result in deviation of luminous intensity, so we recommend to drive by constant current.

(Deviation of VF Value will cause deviation of current in LED.) Furthermore, for off mode, please do not apply voltage neither forward nor reverse. Especially, for the products with the Ag-paste used in the die bonding, there's high possibility to cause electro migration and result in function failure.

### 2 – 2. About Derating

It is considered that derating characteristics will not result in LED chip's electrical destruction. Even within the derating, the reliability and luminous life can be affected depending on operating conditions and ambient environment. So we would be appreciate it if you can confirm with your application again.

### 2 – 3. About product life

Depending on operating conditions and environment(applied current, ambient temperature and humidity, corrosive gas), decreasing of luminosity and change of chromaticity may occur even within the specification conditions.

Please contact our sales office if you use it for the following applications.

① It requires long luminosity life

② It is always lit

### 2 – 4. Applied Stress on Product

No resin hardening agent such as filler is used in the sealing resin of the product.

Therefore, please pay attention to the overstress on it which may influence its reliability.

### 2 – 5. Usage

The Product is LED. We are not responsible for the usage as the diode such as Protection Chip, Rectifier, Switching and so on.

### 3. Others

#### 3 – 1. Surrounding Gas

Notice that if it is stored under the condition of acid gas (chlorine gas, sulfured gas) or alkali gas (ammonia), it may result in low soldering ability (caused by the change in quality of the plating surface ) or optical characteristics changes (light intensity, chrominance) and change in quality of cause die bonding (Ag-paste) materials. All of the above will function failure of the products.

Therefore, please pay attention to the storage environment for mounted product (concern the generated gas of the surrounding parts of the products and the atmospheric environment).

#### 3 – 2. Electrostatic Damage

The product is part of semiconductor and electrostatic sensitive, there's high possibility to be damaged by the electrostatic discharge. Please take appropriate measures to avoid the static electricity from human body and earthing of production equipment. Especially, InGaN type LEDs have lower resistance value of electrostatic discharge and it is recommended to introduce the ESD protection circuit.

The resistance values of electrostatic discharge (actual values) vary with products, therefore, please call our Sales staffs for inquiries.

#### 3 – 3. Electromagnetic Wave

Applications with strong electromagnetic wave such as, IH cooker, will influence the reliability of LED, therefore please evaluate before using it.

#### 4. Mounting

##### 4 – 1. Soldering

- No resin hardening agent such as filler is used in the sealing resin of the product. Therefore, resin expansion and moisture absorption at humidity will cause heat stress during soldering process and finally has bad influence on the product's reliability.
- The product is not guaranteed for flow soldering.
- Thermal stress during the flow soldering of surrounding parts will influence the reliability of LED and please evaluate the soldering conditions before using it. Also please make sure the expiration date after opening the moistureproof package.
- Please set appropriate reflow temperature based on our product usage conditions and specification.
- The max for reflowing is 2 times, please finish the second reflow soldering and flow soldering with other parts within the usage limitation after open the moistureproof package.
- Compare with N2 reflow, during air reflow, because of the heat and surrounding conditions, it may cause the discoloration of the resin.
- For our product that has no solder resist, because of its solder amount and soldering conditions, one of its specific characteristics is that solder will penetrate into LED. Thus, there's high possibility that will influence its reliability. Therefore, please be informed, concerning it before using it.

##### 4 – 2. Automatic Mounting

###### 4-2-1. Silicon Resin Sealing Product

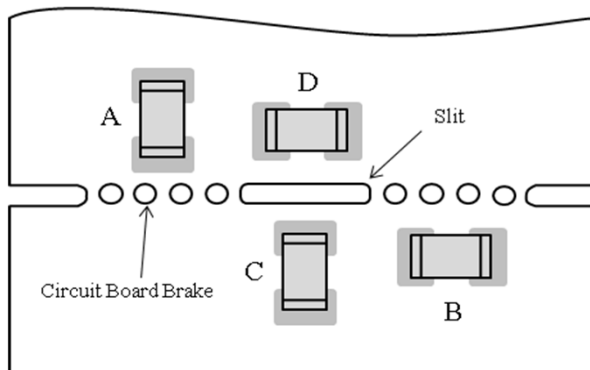
The sealing resin of LED is very soft, so please select adsorption nozzle that would not apply stress directly on the sealing section.

###### 4-2-2. Mini Package (Smaller than 1608 size)

- Vibration may result in low mounting rate since it will cause the static electricity of product and adhere to top cover tape. We recommend to
  - set magnet on parts feeder cassette of the mounter to control the product stabilization
  - set ionizer to prevent electrostatic charge

##### 4 – 3. Mounting Location

The stress like bending stress of circuit board dividing after mounting, may cause LED package crack or damage of LED internal junction, therefore, please concern the mounting direction and position to avoid bending or screwing with great stress of the circuit board.



Stress strength according to the mounting position:  
A > B > C > D

##### 4 – 4. Mechanical Stress after Mounting

The mechanical stress may damage the LED after Circuit Mounting, so please pay attention to the touch on product.

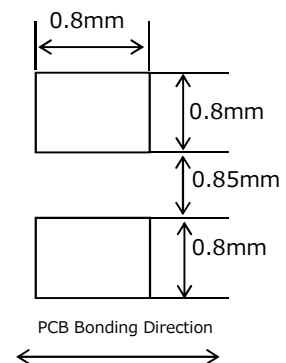
##### 4 – 5. Soldering Pattern for Recommendation

We recommend the soldering pattern that shows on the right. It will be different according to mounting situation of circuit board, therefore, please concern before designing.

※The product has adopted the electrode structure that it should solder with back electrode of the product.

Thus, please be informed that the shape of electrode pin of solder fillet formation is not guaranteed.

The through hole on electrode surface is for conduction of front and rear electrodes but not for formation of solder fillet.





4 – 6. Reflow Profile

For reflow profile, please refer to the conditions below:(※)

■ Meaning of marks, Conditions

Mark	Meanings	Conditions
T <sub>Smax</sub>	Maximum of pre-heating temperature	180°C
T <sub>Smin</sub>	Minimum of pre-heating temperature	140°C
t <sub>s</sub>	Time from T <sub>Smin</sub> to T <sub>Smax</sub>	Over 60sec.
T <sub>L</sub>	Reference temperature	230~260°C
t <sub>L</sub>	Retention time for T <sub>L</sub>	Within 40sec.
T <sub>P</sub>	Peak temperature	260°C(Max)
t <sub>p</sub>	Time for peak temperature	Within 10sec.
ΔT <sub>R</sub> /Δt	Temperature rising rate	Under 3°C/sec.
ΔT <sub>D</sub> /Δt	Temperature decreasing rate	Over -3°C/sec.



※Above conditions are for reference. Therefore, evaluate by customer’s own circuit boards and reflow furnaces before using, because stress from circuit boards and temperature variations of reflow furnaces vary by customer’s own conditions.

4 – 7. Attention Points in Soldering Operation

This product was developed as a surface mount LED especially suitable for reflow soldering. So reflow soldering is recommended. In case of implementing manual soldering, please take care of following points.

①SOLDER USED

Sn-Cu, Sn-Ag-Cu, Sn-Ag-Bi-Cu

②HAND SOLDERING CONDITION

LED products do not contain reinforcement material such as a glass fillers.

So thermal stress by soldering greatly influence its reliability.

Please keep following points for manual soldering.

	ITEM	RECOMMENDED CONDITION
a)	Heating method	Condition ) Temp. of iron top less than 400°C within 3 sec. Heating on PCB pattern, not direct to the LED. (Fig-1)
b)	Handling after soldering	Please handle after the part temp. goes down to room temp.



4 – 8. Cleaning after Soldering

Please follow the conditions below if the cleaning is necessary after soldering.

Solvent	We recommend to use alcohols solvent such as, isopropyl alcohols
Temperature	Under 30°C within 3 minutes
Ultrasonic Cleaning	15W/ Below 1 liter (capacity of tank)
Drying	Under 100°C within 3 minutes

## Notes

- 1) The information contained herein is subject to change without notice.
- 2) Before you use our Products, please contact our sales representative and verify the latest specifications :
- 3) Although ROHM is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors.  
Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. ROHM shall have no responsibility for any damages arising out of the use of our Products beyond the rating specified by ROHM.
- 4) Examples of application circuits, circuit constants and any other information contained herein are provided only to illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.
- 5) The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by ROHM or any other parties. ROHM shall have no responsibility whatsoever for any dispute arising out of the use of such technical information.
- 6) The Products are intended for use in general electronic equipment (i.e. AV/OA devices, communication, consumer systems, gaming/entertainment sets) as well as the applications indicated in this document.
- 7) The Products specified in this document are not designed to be radiation tolerant.
- 8) For use of our Products in applications requiring a high degree of reliability (as exemplified below), please contact and consult with a ROHM representative : transportation equipment (i.e. cars, ships, trains), primary communication equipment, traffic lights, fire/crime prevention, safety equipment, medical systems, servers, solar cells, and power transmission systems.
- 9) Do not use our Products in applications requiring extremely high reliability, such as aerospace equipment, nuclear power control systems, and submarine repeaters.
- 10) ROHM shall have no responsibility for any damages or injury arising from non-compliance with the recommended usage conditions and specifications contained herein.
- 11) ROHM has used reasonable care to ensure the accuracy of the information contained in this document. However, ROHM does not warrant that such information is error-free, and ROHM shall have no responsibility for any damages arising from any inaccuracy or misprint of such information.
- 12) Please use the Products in accordance with any applicable environmental laws and regulations, such as the RoHS Directive. For more details, including RoHS compatibility, please contact a ROHM sales office. ROHM shall have no responsibility for any damages or losses resulting from non-compliance with any applicable laws or regulations.
- 13) When providing our Products and technologies contained in this document to other countries, you must abide by the procedures and provisions stipulated in all applicable export laws and regulations, including without limitation the US Export Administration Regulations and the Foreign Exchange and Foreign Trade Act.
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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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