

### PACKAGE DIMENSION

❖ **Package Dimensions of Device**

❖ **Tape Specification: 3,000pcs per reel**

❖ **Package Dimensions of Reel**

❖ **Recommended Soldering Pad Dimensions**

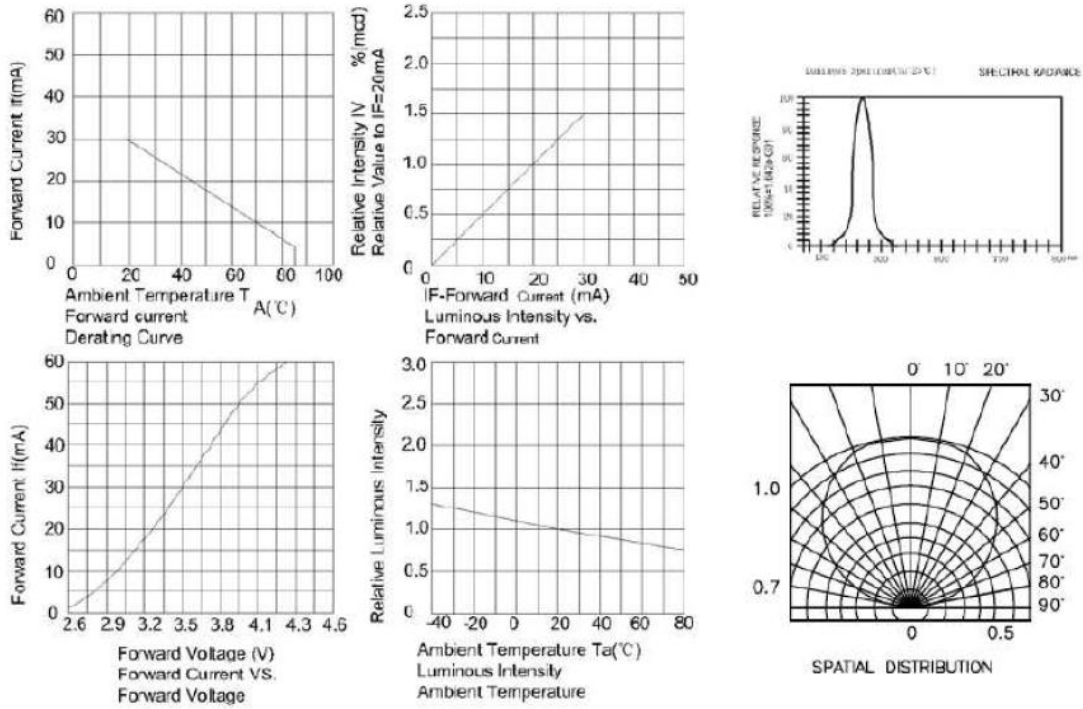
**NOTES:**

1. All dimensions are in millimeter(inch);
2. Tolerance is  $\pm 0.2\text{mm}(0.008\text{'})$  especially other specified;
3. Specifications are subject to change without notice.

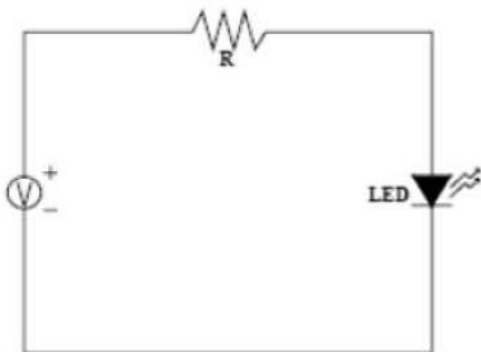
SE-1206T-BC

<p>◇ <b>Features</b></p> <ul style="list-style-type: none"> <li>➤ 3.2mm x 1.6mm SMT LED, 0.68mm thickness.</li> <li>➤ Low power consumption.</li> <li>➤ Wide viewing angle.</li> <li>➤ Ideal for backlight and indicator.</li> <li>➤ Various colors and lens types available.</li> <li>➤ Dice materials: InGaN.</li> <li>➤ Emitted color: Blue.</li> <li>➤ Lens color: Water Clear.</li> </ul>	<p>◇ <b>Description</b></p> <p>The Blue source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Blue Lithium Emitting Diode.</p>																																																								
<p>◇ <b>Absolute Maximum Ratings(Ta=25C°)</b></p> <table border="1"> <thead> <tr> <th>Item</th> <th>Symbol</th> <th>Maximum</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>Power Dissipation</td> <td>Pd</td> <td>114</td> <td>mW</td> </tr> <tr> <td>Continuous Forward Current</td> <td>Ifmax</td> <td>30</td> <td>mA</td> </tr> <tr> <td>Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)</td> <td>Ifp</td> <td>160</td> <td>mA</td> </tr> <tr> <td>Reverse Voltage</td> <td>VR</td> <td>5</td> <td>V</td> </tr> <tr> <td>Operating Temperature Range</td> <td>Topr</td> <td>-40 to +85</td> <td>°C</td> </tr> <tr> <td>Storage Temperature Range</td> <td>Tstg</td> <td>-40 to +85</td> <td>°C</td> </tr> </tbody> </table>		Item	Symbol	Maximum	Unit	Power Dissipation	Pd	114	mW	Continuous Forward Current	Ifmax	30	mA	Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	Ifp	160	mA	Reverse Voltage	VR	5	V	Operating Temperature Range	Topr	-40 to +85	°C	Storage Temperature Range	Tstg	-40 to +85	°C																												
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✧ Typical Electro-Optical Characteristics Curves



✧ Test Circuit



SE-1206T-BC

◇ Reliability Test Items And Conditions					
NO.	Item	Test Condition	Test Hr/cycle/time	Sample Q <sup>ty</sup>	Ac/Re
1	Reflow	TEMP:260°C±5°C; Min. 5sec	6 min	22pcs	0/1
2	Temperature Cycle	H: +100°C 15mins to (5mins) L: -40°C 15mins	300 cycles	22pcs	0/1
3	Thermal Shock	H: +100°C 15mins to (10sec) L: -10°C 15mins	300 cycles	22pcs	0/1
4	High Temperature Storage	TEMP: +100°C	1000 hrs	22pcs	0/1
5	Low Temperature Storage	TEMP: -40°C	1000 hrs	22pcs	0/1
6	DC Operating Life	IF=20mA	1000 hrs	22pcs	0/1
7	High Temperature	85°C	1000 hrs	22pcs	0/1
8	High Humidity	85%R.H.	1000 hrs	22pcs	0/1

**SMT Reflow Soldering Instructions**  
 Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.

Temperature Profile (Lead Solder)

Temperature Profile (Lead-free Solder)