

SE-1206T-WD

PACKAGE DIMENSION

◇ **Package Dimensions of Device**

Pb-free

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

◇ **Package Dimensions of Reel**

◇ **Recommended Soldering Pad Dimensions**

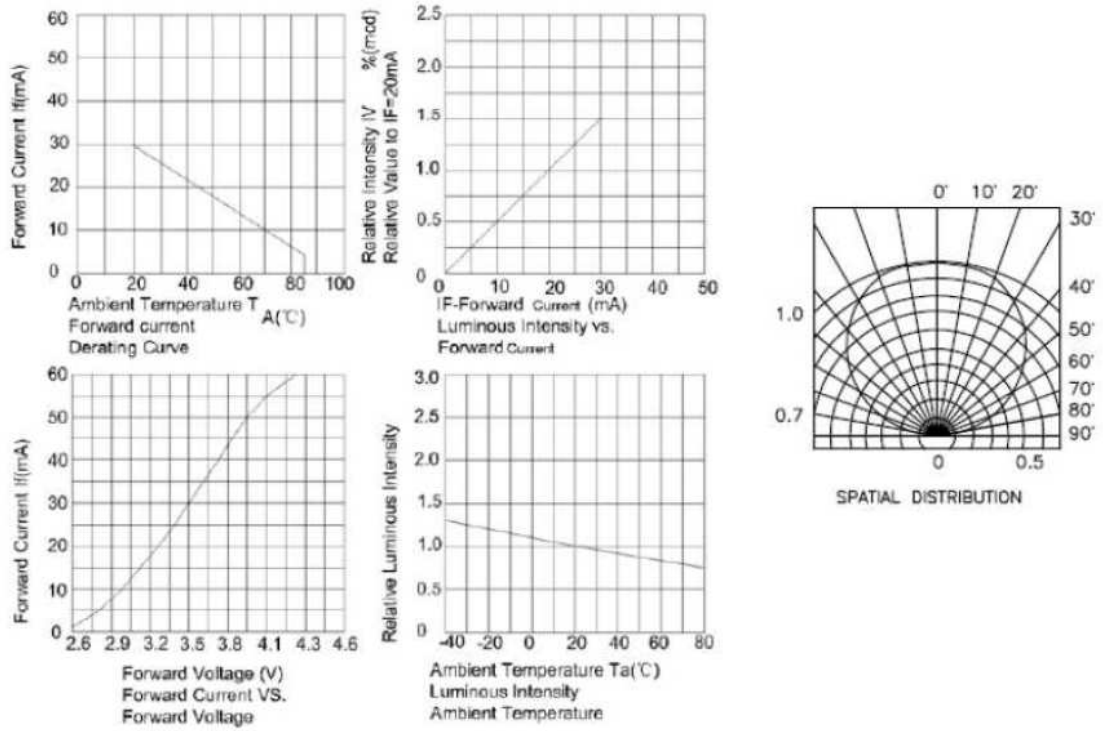
NOTES:

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

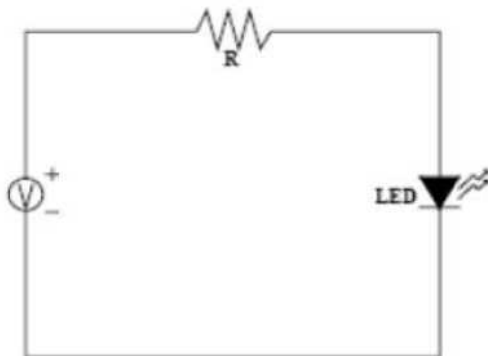
SE-1206T-WD

<p>◇ Features</p> <ul style="list-style-type: none"> ➤ 3.2mm x 1.6mm SMT LED, 0.68mm thickness. ➤ Low power consumption. ➤ Wide viewing angle. ➤ Ideal for backlight and indicator. ➤ Various colors and lens types available. ➤ Dice materials: InGaN. ➤ Emitted color: White. ➤ Lens color: Yellow Diffused. 	<p>◇ Description</p> <p>The white source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Green Lithium Emitting Diode.</p>																																																							
<p>◇ Absolute Maximum Ratings(Ta=25C°)</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>150</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	150	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-WD

◇ **Reliability Test Items And Conditions**

NO.	Item	Test Condition	Test Hr/cycle/time	Sample Q'ty	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)