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### **Electro-Optical Characteristics**

Absolute Maximum Ratings (Temperature=25°C)				
参数名称 Parameter		符号 Symbol	数值 Rating	单位 Unit
Forward Current		١ <sub>F</sub>	25	mA
Pulse Forward Current <sup>*</sup>		I <sub>FP</sub>	100	mA
Reverse Voltage		V <sub>R</sub>	5	V
Operating Temperature		T <sub>OPR</sub>	-30 ~ +85	
Storage Temperature		Tstg	-40 ~ +100	
	Red		60	
Power Dissipation	Green	PD	85	mW
	Blue	]	85	

0.1ms

1/10 \* Note: Pulse Width 0.1ms, Duty 1/10

#### Electro-Optical Characteristics (Temperature=25°C)

参数名称	符号	条件	颜色	最小值	典型值	最大值	单位
Parameter	Symbol	Condition	Color	Min.	Тур.	Max.	Unit
			Red			10	
Reverse Current	I <sub>R</sub>	VR=5 V	Green			10	μΑ
			Blue			10	
		IF=15mA	Red	1.8	2.0	2.4	
Forward Voltage	V <sub>F</sub>	IF=8mA	Green	2.4	3.0	3.4	V
		IF=5mA	Blue	2.4	3.0	3.4	
		IF=15mA	Red	615	622	630	
Dominant Wavelength	$\lambda_D$	IF=8mA	Green	515	522	535	nm
Dominiant Waverength		IF=5mA	Blue	465	472	480	
		IF=15mA	Red			24	
Spectrum Radiation	Δλ	IF=8mA	Green			38	nm
Bandwidth		IF=5mA	Blue			28	
		IF=15mA	Red	300	450	680	
Luminous Intensity	$I_V$	IF=8mA	Green	480	730	1100	mcd
		IF=5mA	Blue	70	105	160	
View Angle	<b>2</b> 01/2				110		deg.

\* Note: The parameters above only for your reference. In case of any discrepancy, please adhere to the label of our actual products. All parameters tested by the standard testing system of manufacturer.

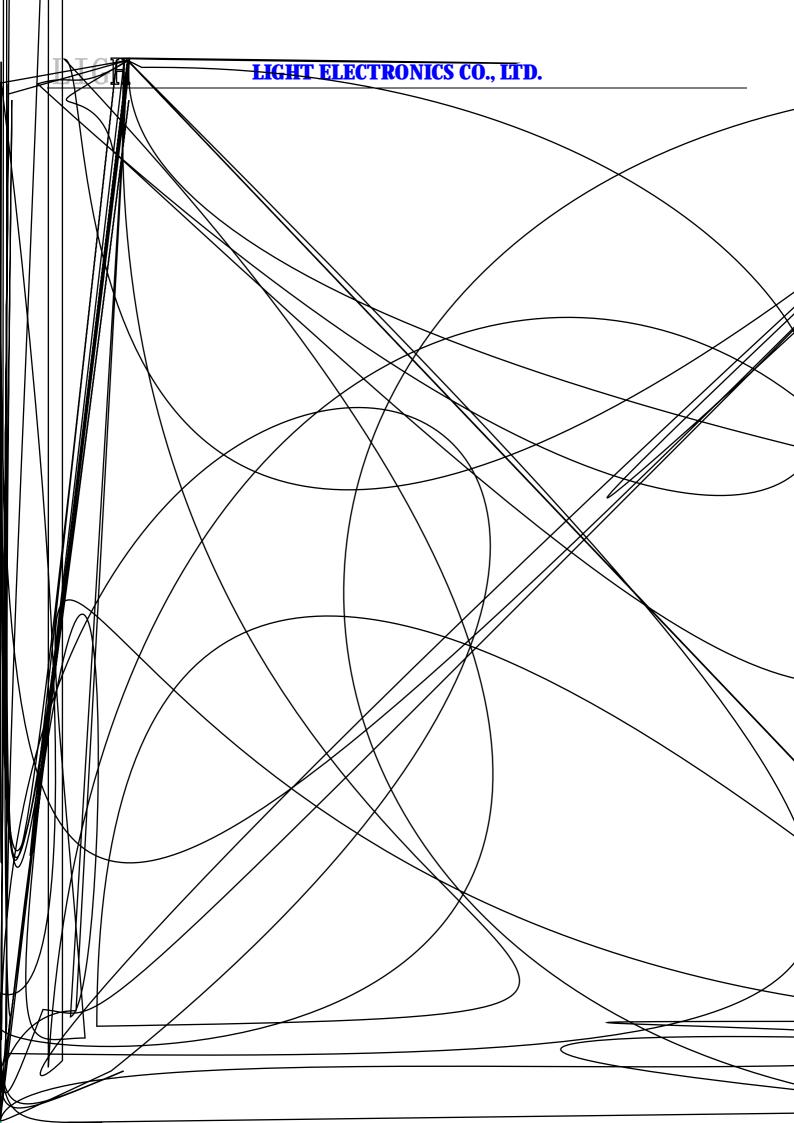
以上

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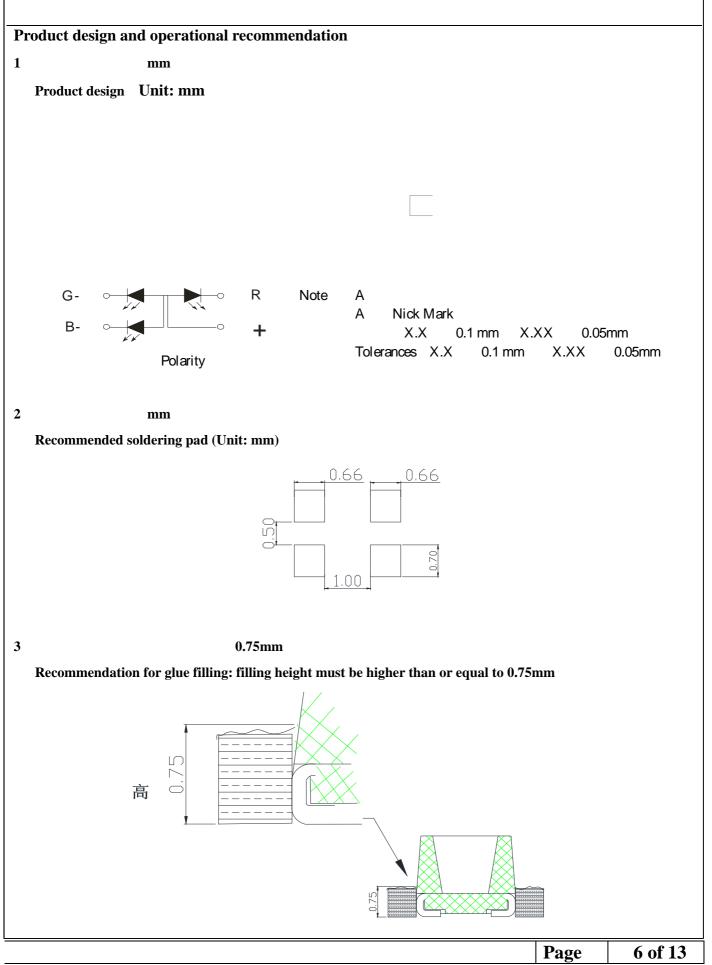




Reliability Test Items And (	Conditions				
实验项目	参考标准	实验条件	时间	样品数	
Test Items	Reference	Test Conditions	Time	Quantit	
Thermal Shock	MIL-STD-202G	-40 (30min)←→100 (30min)	300 300 cycles	22	0/22
	JEITA ED-4701 200	-10+65 0%-90%RH			
Temperature And Humidity Cyclic	203				
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# **LIGHT**









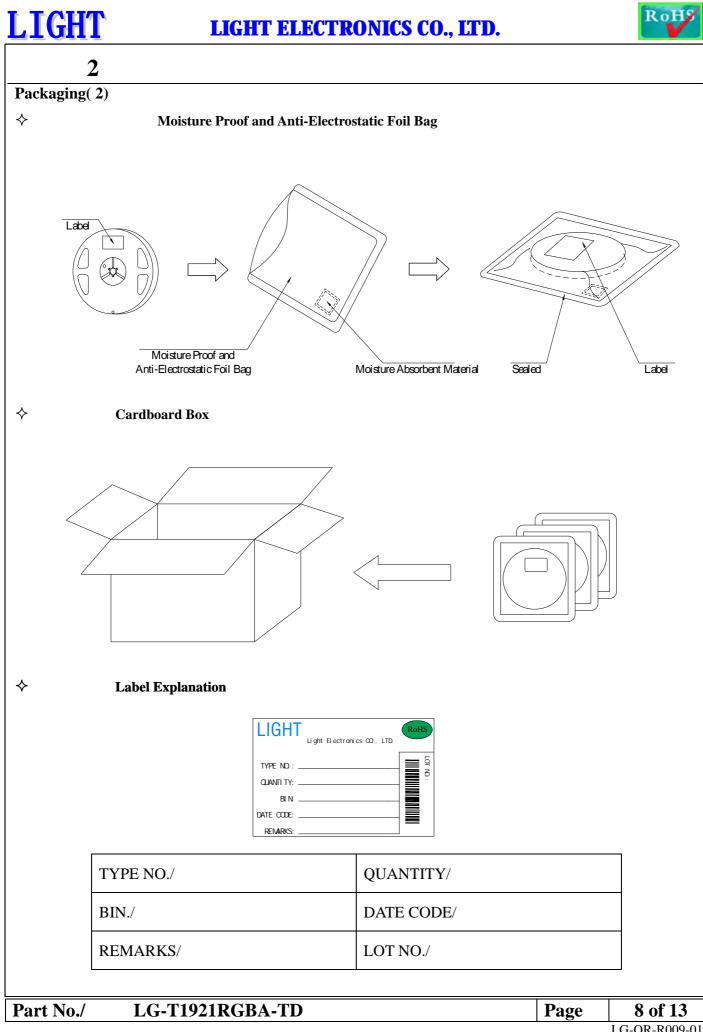
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Packaging (1)

♦ Carrier Tape

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2

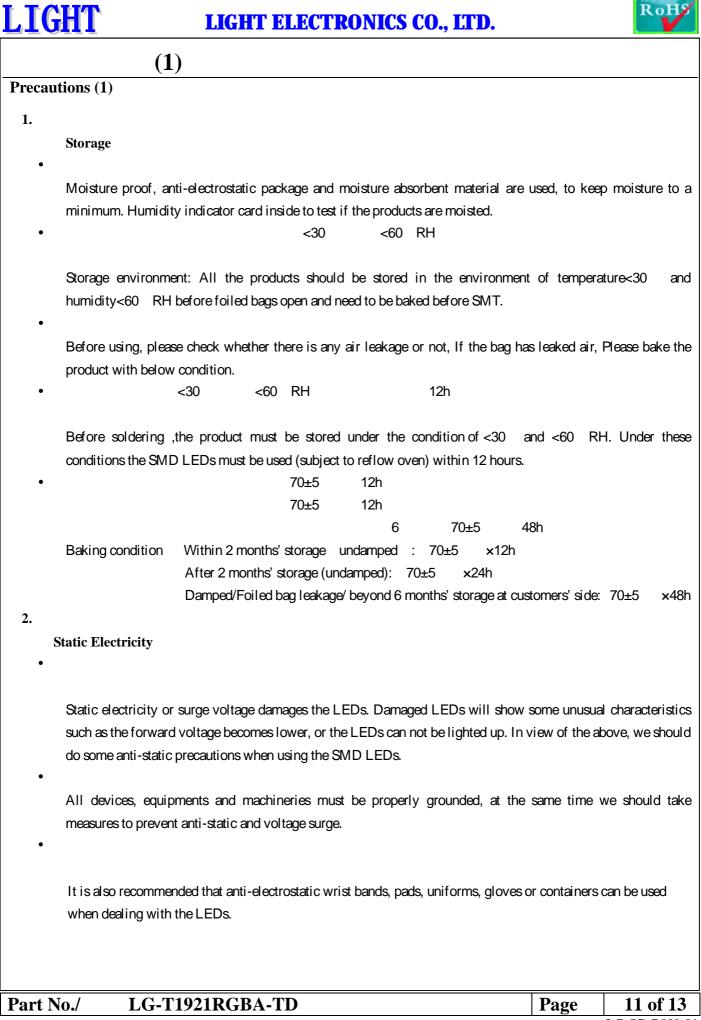
**Guideline for Soldering (2)** 

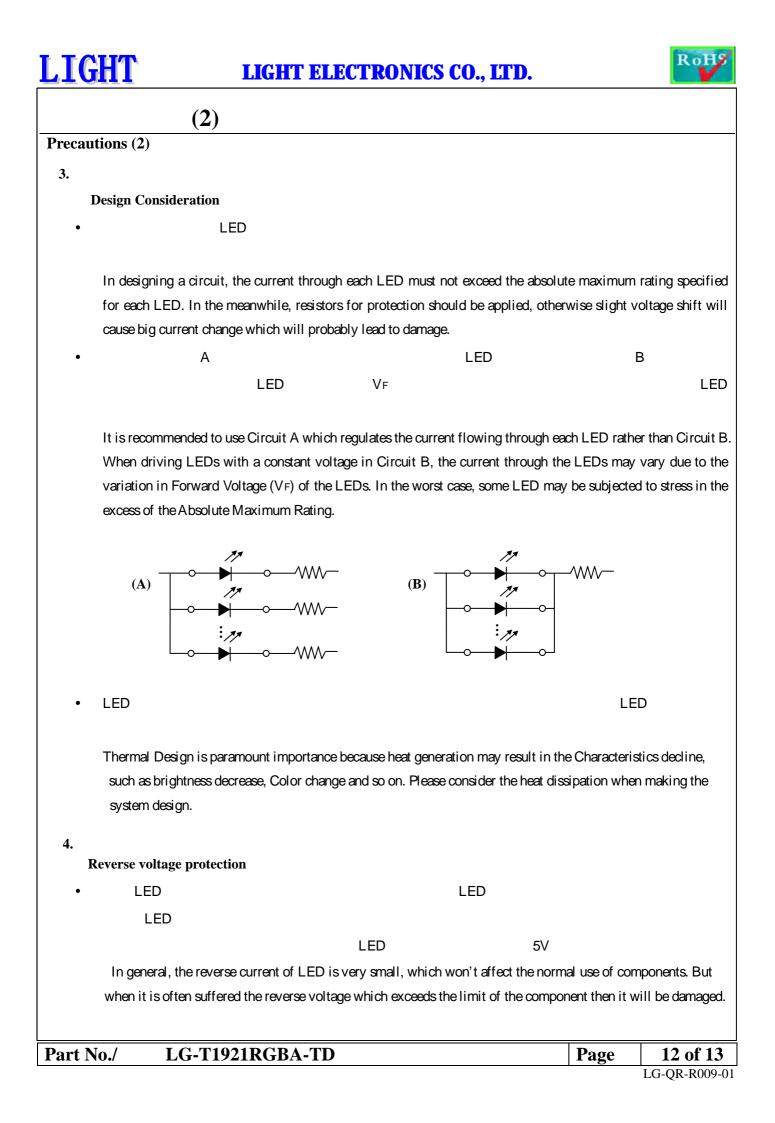
Reflow soldering should not be done more than one time.

LED

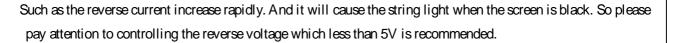
Stress on the LEDs should be avoided during heating in the reflow soldering process.

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5.

#### The safe temperature for LEDs working

LED

The high temperature will make the LEDs' Luminous Intensity decreased radically, if LEDs are used in hot environment for a long time, they will be disabled easily. When LEDs are used in a high density array, we suggest that the LEDs' surface temperature should be lower than 55 and the legs' temperature should be lower than 75 .

55

6.

Others

When handling the product, touching the encapsulation with bare hands will not only contaminate its surface, but also have an effect on its optical characteristics. Excessive force to the encapsulation might result in catastrophic failure of the LEDs due to die breakage or wire deformation. For this reason, please do not put excessive stress on LEDs, especially when the LEDs are heated such as during Reflow Soldering.



• LED



75