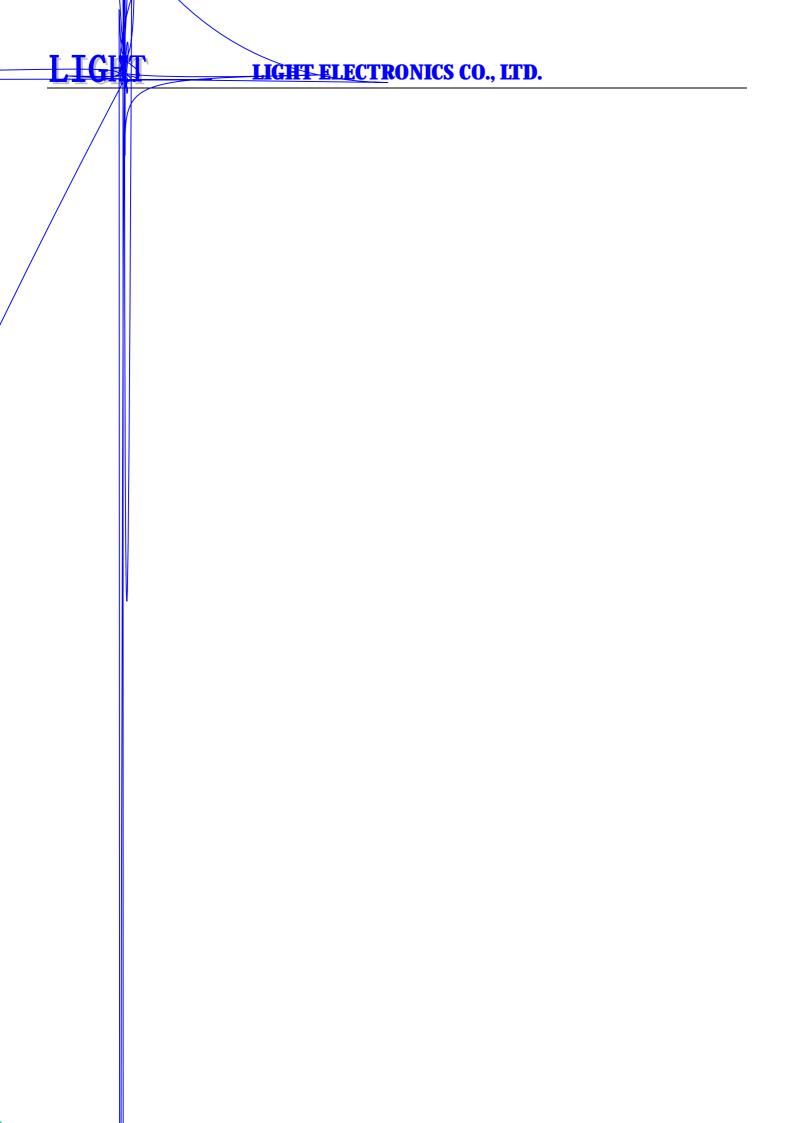


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Electro-Optical Characteristics

Absolute Maximum Ratings (Temperature=25°C)				
参数名称 Parameter		符号 Symbol	数值 Rating	单位 Unit
Forward Current		١ _F	25	mA
Pulse Forward Current [*]		I _{FP}	100	mA
Reverse Voltage		V _R	5	V
Operating Temperature		T _{OPR}	-30 ~ +85	
Storage Temperature		Tstg	-40 ~ +100	
	Red		60	
Power Dissipation	Green	PD	85	mW
	Blue	<u> </u>	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 _R	VR=5 V	Green			10	μΑ
			Blue			10	
		IF=15mA	Red	1.8	2.0	2.4	
Forward Voltage	V _F	IF=8mA	Green	2.4	3.0	3.4	V
i orward vortage		IF=5mA	Blue	2.4	3.0	3.4	
		IF=15mA	Red	615	622	630	
Dominant Wavelength	λ_D	IF=8mA	Green	515	522	535	nm
Dominant Wavelength		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	201/2				110		deg.

以上 厂商 * 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.

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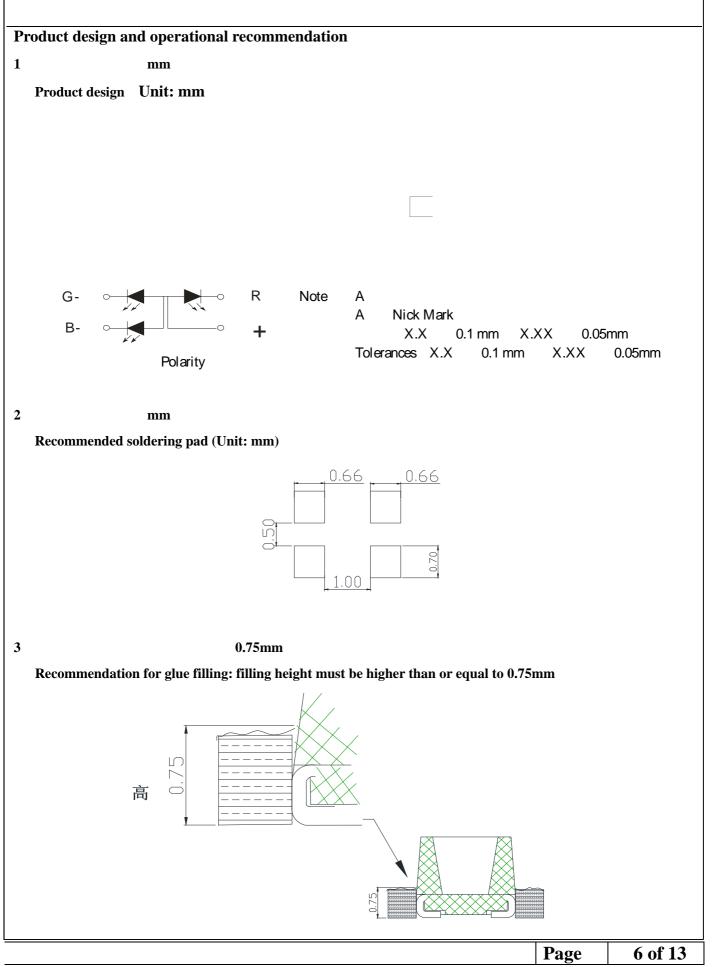
LIGHT ELECTRONICS CO., LTD.



· · · · · · · · · · · · · · · · · · ·	Conditions				
实验项目	参考标准	实验条件	时间	样品数	判据
Test Items	Reference	Test Conditions	Time	Quantit	Crite
Thermal Shock	MIL-STD-202G	-40 (30min)←→100 (30min)	300 300 cycles	22	0/22
Temperature And Humidity Cyclic	JEITA ED-4701 200 203	-10+65 0%-90%RH		1	1
1					
			Page		f 13

LIGHT







LIGHT ELECTRONICS CO., LTD.



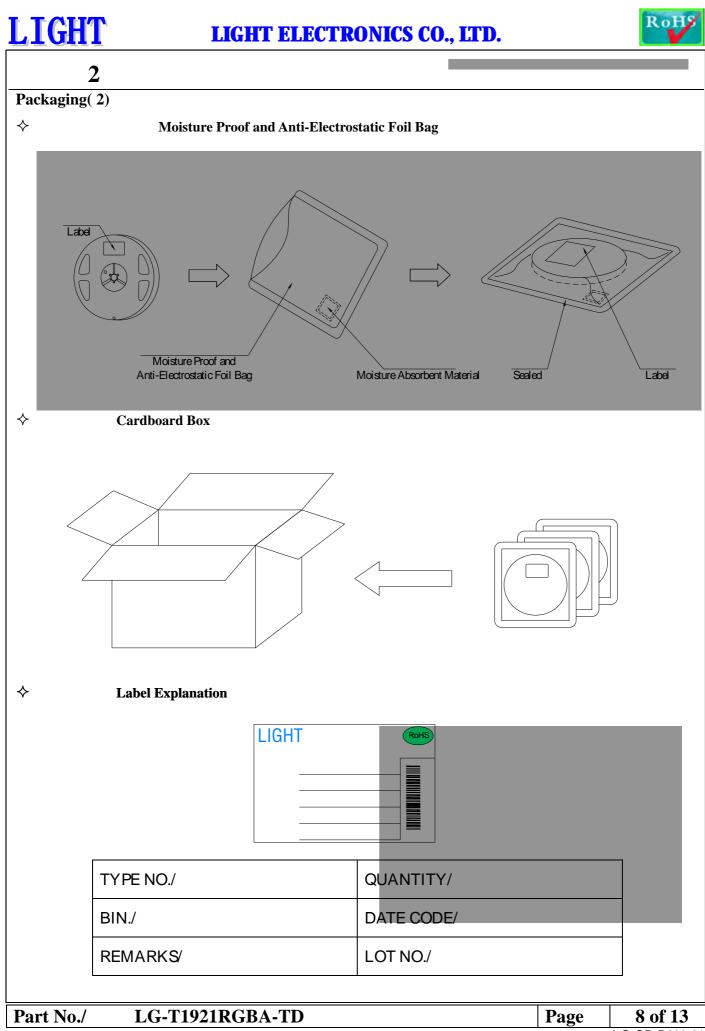
1

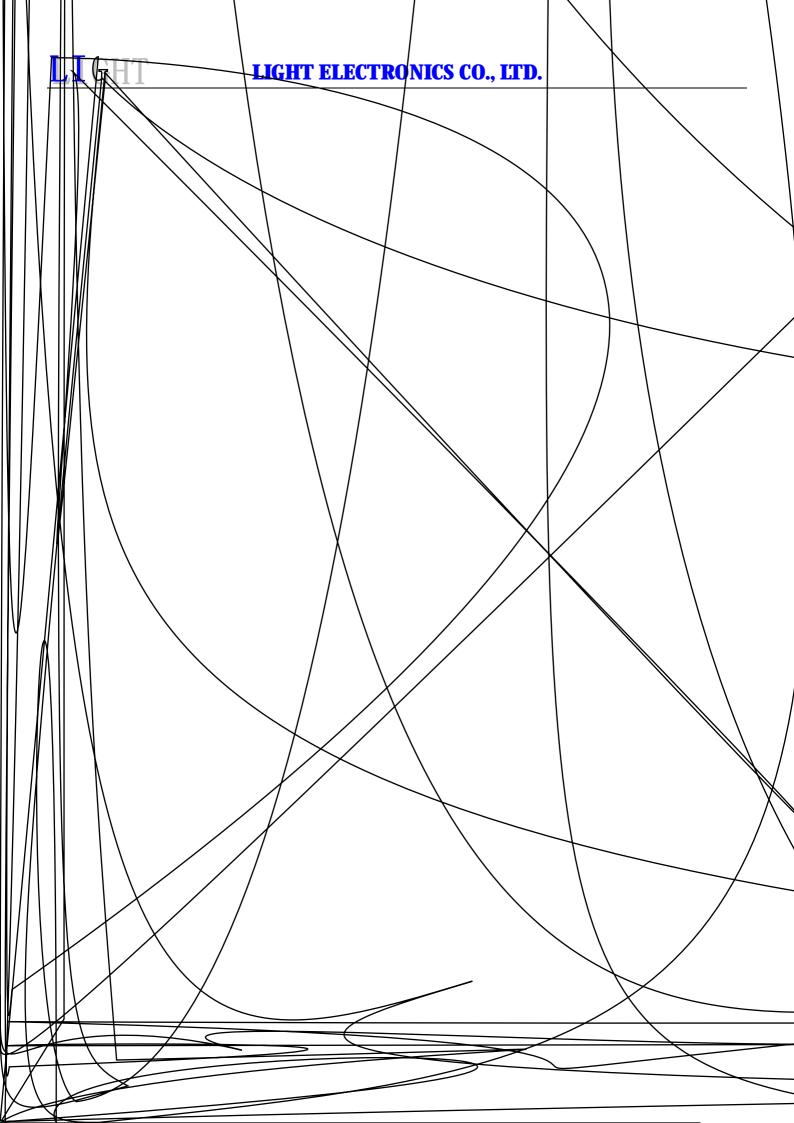
Packaging (1)

♦ Carrier Tape

∻

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LIGHT ELECTRONICS CO., LTD.



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.

BEDLED6ED

LED

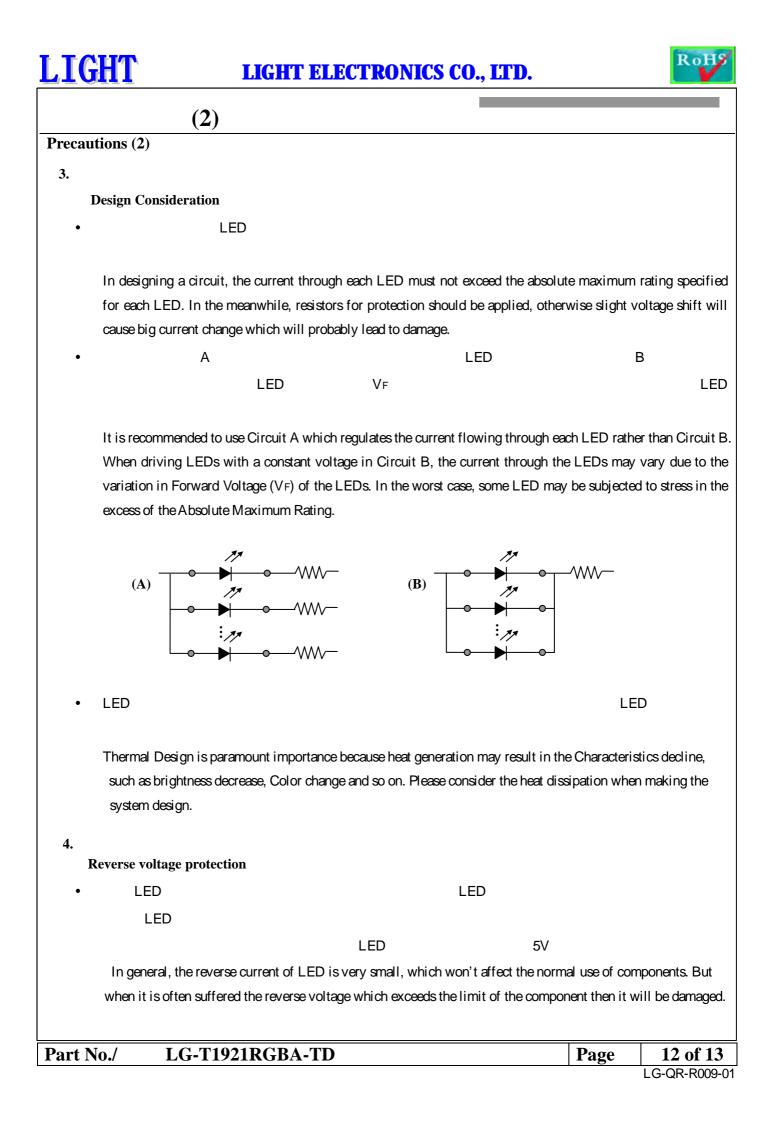
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	LG-QR-R009-01



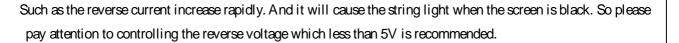
LIGHT LIGHT ELECTRONICS CO., LTD.



(1)		
Precautions (1)		
1.		
Storage		
•		
Moisture proof, anti-electrostatic package and moisture absorbent material are u	used, to keep	moisture to a
minimum. Humidity indicator card inside to test if the products are moisted.		
• <30 <60 RH		
Storage environment: All the products should be stored in the environment	of temperat	ure<30 and
humidity<60 RH before foiled bags open and need to be baked before SMT.		
•		
Before using, please check whether there is any air leakage or not, If the bag has	sleakedair, F	Please bake the
product with below condition.		
• <30 <60 RH 12h		
Before soldering ,the product must be stored under the condition of <30 a	nd <60 RH	l Inder these
conditions the SMD LEDs must be used (subject to reflow oven) within 12 hours.		
• 70±5 12h		
70±5 12h		
6 70±5 44	3h	
Baking condition Within 2 months' storage undamped : 70±5 ×12h		
After 2 months' storage (undamped): 70±5 ×24h		
Damped/Foiled bag leakage/ beyond 6 months' storage at cus	omers' side:	70±5 ×48h
2.		
Static Electricity		
•		
Static electricity or surge voltage damages the LEDs. Damaged LEDs will show s		
such as the forward voltage becomes lower, or the LEDs can not be lighted up. In v	new of the ab	ove, we should
do some anti-static precautions when using the SMD LEDs.		
All devices, equipments and machineries must be properly grounded, at the	sama tima w	ve should take
measures to prevent anti-static and voltage surge.		
•		
It is also recommended that anti-electrostatic wrist bands, pads, uniforms, gloves o	r containers o	an be used
when dealing with the LEDs.		
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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

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