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Electro-Optical Characteristics

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Absolute Maximum Ratings (Temperature=25°C)

Parameter		Symbol	Rating	Unit
Forward Cur	rent	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	P _D	90	mW
	Blue	1	90	

0.1ms

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Electro-Optical Characteristics (Temperature=25°C)

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	3.6	V
i orward vortage		IF=5mA	Blue	2.4	3.0	3.6	
		IF=15mA	Red	615	622	630	
Dominant Wavelength	λ _D	IF=8mA	Green	515	525	535	nm
Dominant Wavarangth		IF=5mA	Blue	465	470	480	
		IF=15mA	Red			24	
Spectrum Radiation	Δλ	IF=8mA	Green			38	nm
Bandwidth		IF=5mA	Blue			28	-
		IF=15mA	Red	310	470	700	
Luminous Intensity	I_V	IF=8mA	Green	500	750	1200	mcd
E diffitious frice laity		IF=5mA	Blue	70	120	180]
View Angle	201/2				110		deg.

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以上

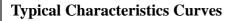
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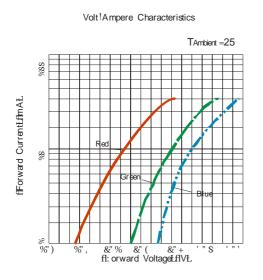
1/10 * Note: Pulse Width 0.1ms, Duty 1/10

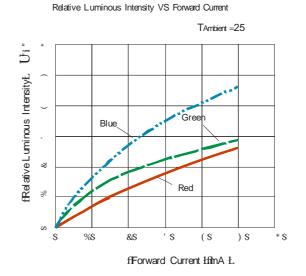
* Note: The parameters above only for your reference. In case of any discrepancy, please adhere to the label of our actual products. All parameters tested by the standard testing system of manufacturer.

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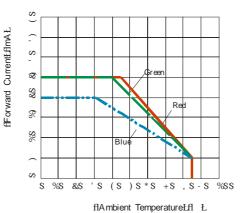


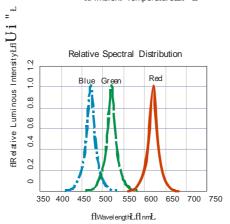




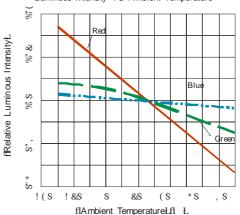


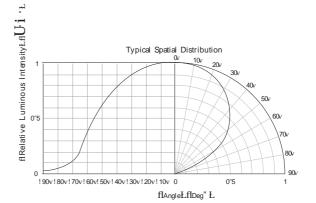
Forward Current Derating Curve





Luminous Intensity VS Ambient Temperature





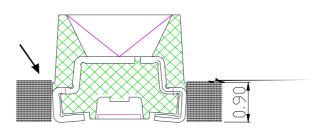
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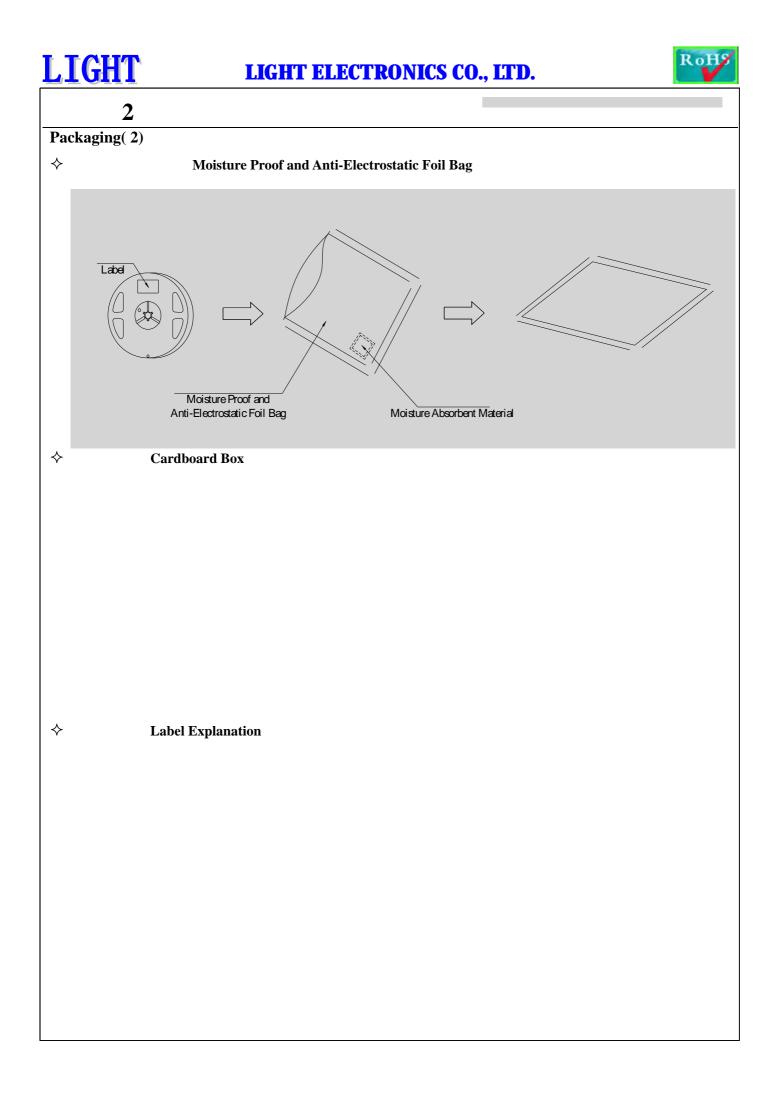
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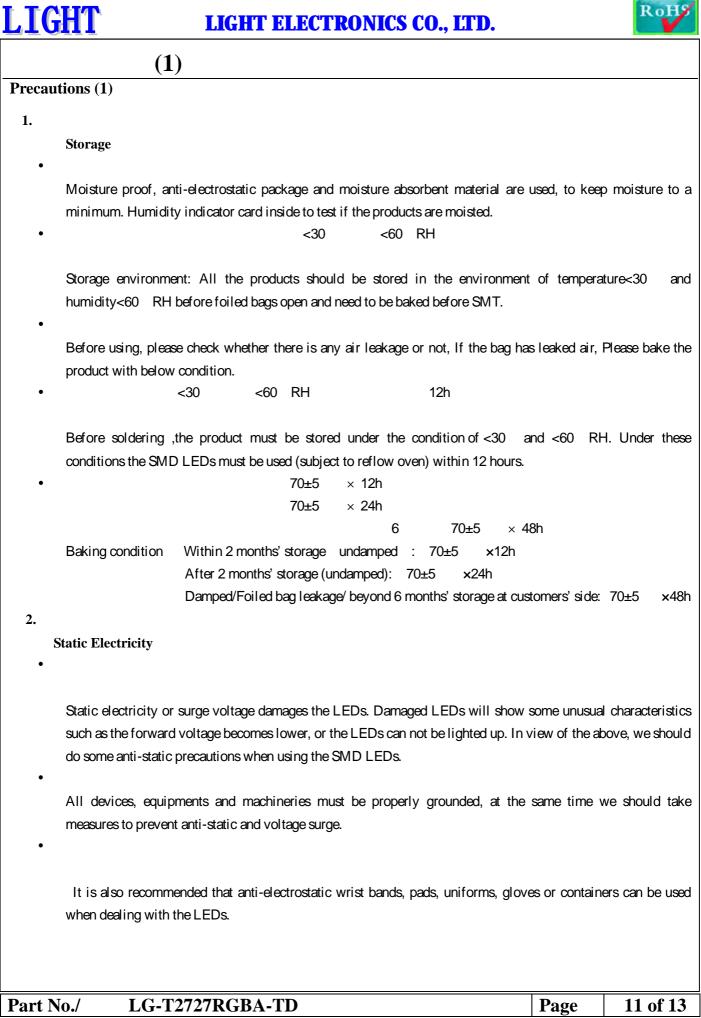
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LIGHT LIGHT ELECTRONICS CO., LTD.



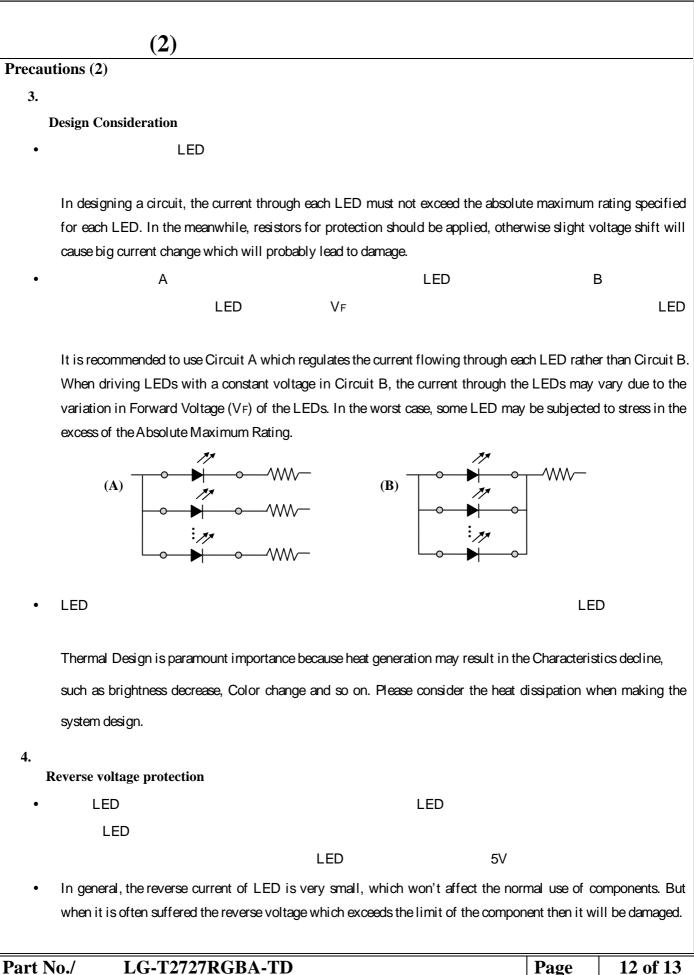
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Guideline for Soldering (2)			
· Reflow soldering should not be done more than or	ne time.		
· LED			
• Stress on the LEDs should be avoided during heat	ing in the reflow solderin	ng process.	
• After soldering, do not deal with the product before	re its temperature drop do	own to room tempera	ature.
3.			
Cleaning	20	0	50
30	30	3 LED	50
30		LED	
It is recommended that alcohol Anhydrous ethan	ol be used as a solvent f	or cleaning after sol	dering. Cleaning
is to go under 30 for 3 minutes or 50 for 30 s	econds. When using othe	er solvents, it should	be confirmed
beforehand whether the solvents will dissolve the	package and the resin or	not.	
	300W	LED	
LED			
Ultrasonic cleaning is also an effective way for cle on factors such as ultrasonic power. Generally, the			
it will cause LED damage. Before cleaning, a pre	-	-	
occur.			•
PCB			P76
t NchY. T\]g[YbYfU [i]XY]bYaUmbch Udd`mhc U` P76 XYg][b		-	
]bdfUM/JWY]g]bZiYbWXXVmaUbmZUM/cfgž]hg\ci cZh\Ygc`XXf]b[Yei]daYbh"	X VI garvyU JniX vcgi c	D N Y P76 Argj[dg U	DX WODZJ [11 UNJ CDĘ
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LIGHT







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(3)

Precautions (3)

Such as the reverse current increase rapidly. And it will cause the string light when the screen is black. So please pay attention to controlling the reverse voltage which less than 5V is recommended.

5.

The safe temperature for LEDs working

LED

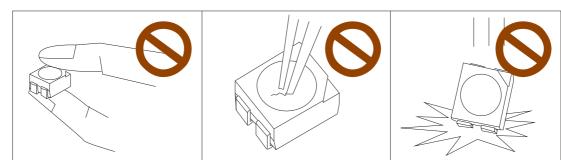
The high temperature will make the LEDs' Luminous Intensity decreased radically, if LEDs are used in hot environment for a long time, they will be disabled easily. When LEDs are used in a high density array, we suggest that the LEDs' surface temperature should be lower than 55 and the legs' temperature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

The epoxy resin of encapsulation is fragile, so please avoid scratch or friction over the epoxy resin surface. While handling the product with tweezers, do not hold by the epoxy resin, be careful.

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