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Electro-Optical Characteristics

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Absolute Maximum Ratings (Temperature=25°C)

Parameter		Symbol	Rating	Unit
Forward Current		١ _F	25	mA
Pulse Forward C	* Current [*]	I _{FP}	100	mA
Reverse Voltage		V _R	5	V
Operating Temperature		T _{OPR}	-30 ~ +85	
Storage Tempe	rature	Tstg	-40 ~ +100	
_	Red		60	
Power Dissipation	Green	PD	90	mW
	Blue		90	

0.1ms

1/10

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

Electro-Optical Characteristics (Temperature=25°C)

Parameter	Symbol	Condition	Color	Min.	Тур.	Max.	Unit
	0,11.001		Red		.,	10	
Reverse Current	I _R	VR=5 V	Green			10	μA
Nevel Se Current			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
roiwaru voitage		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 Wavelongin		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
Edminiodo mitoriorty		IF=5mA	Blue	70	120	180	
View Angle	201/2				110		deg.

以上

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* 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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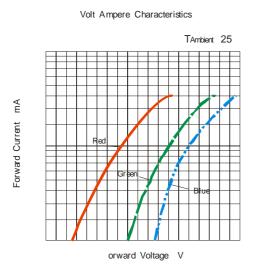
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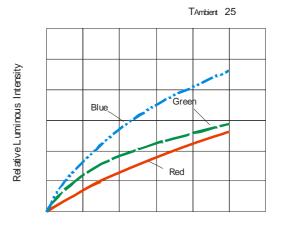




Typical Characteristics Curves

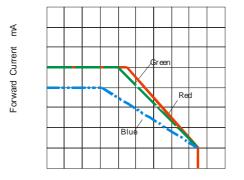


Relative Luminous Intensity VS Forward Current



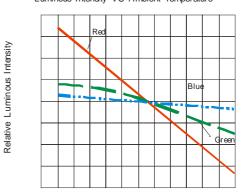
Forward Current mA

Forward Current Derating Curve

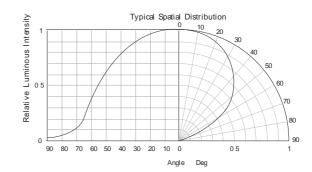


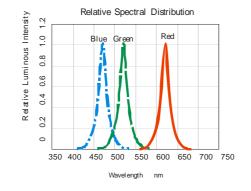
Ambient Temperature

Luminous Intensity VS Ambient Temperature



Ambient Temperature





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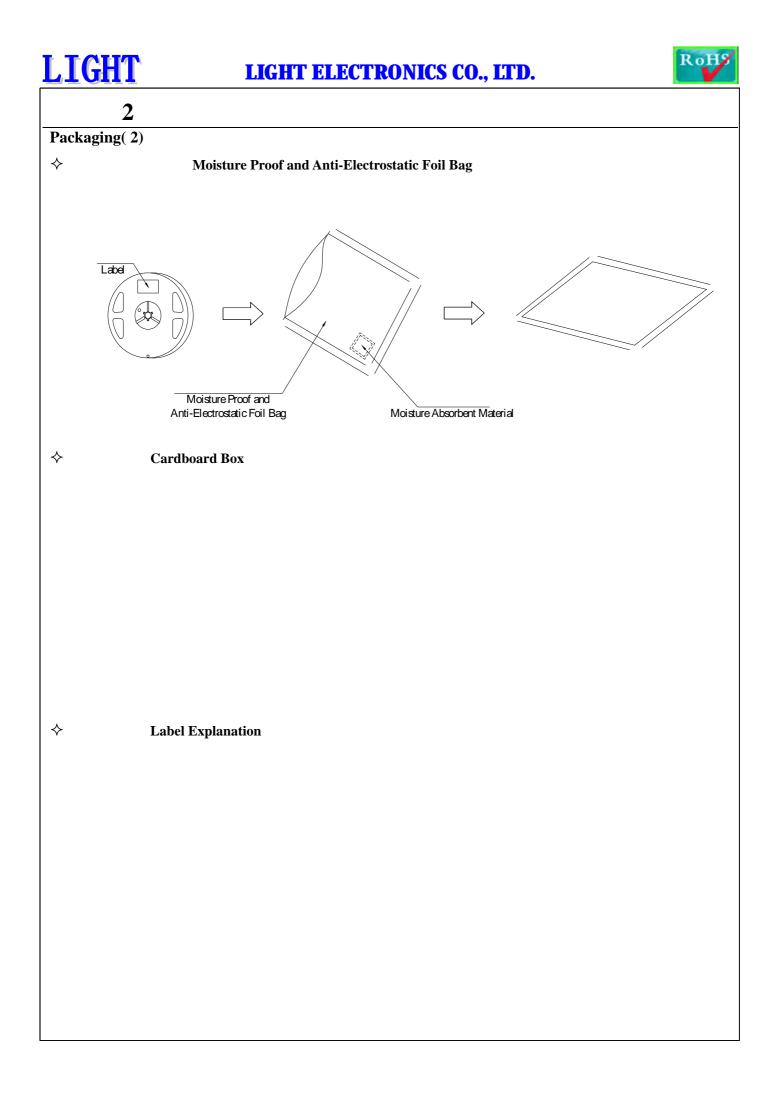
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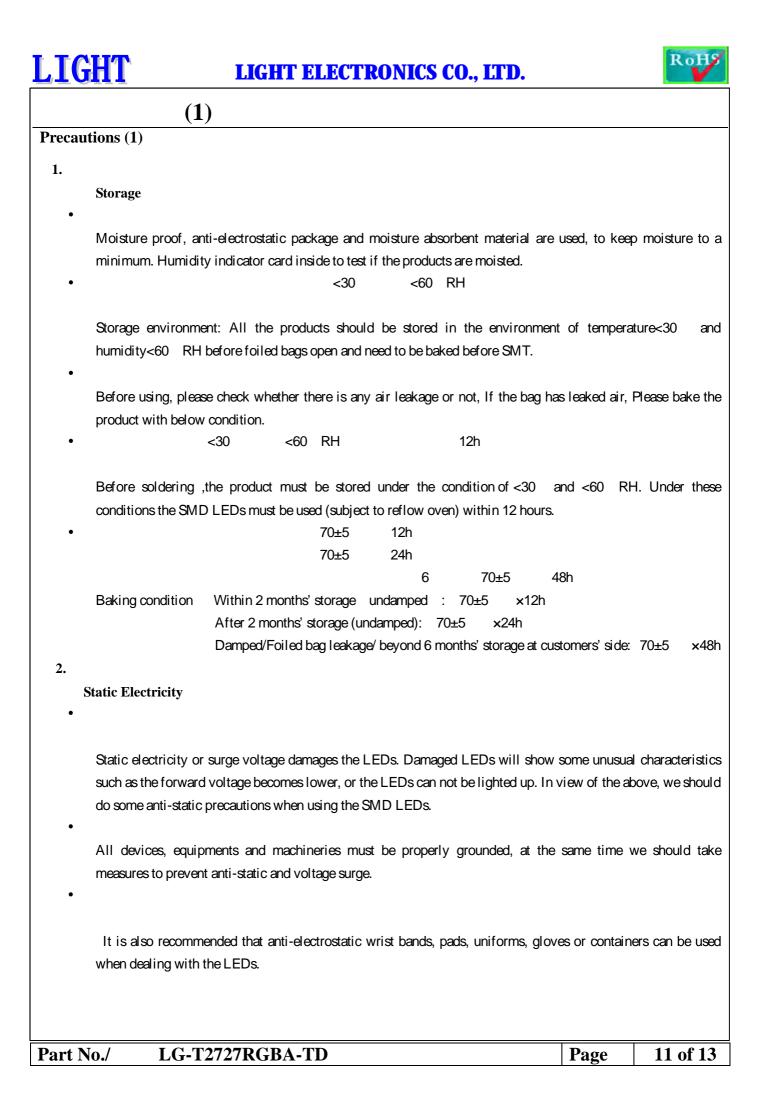


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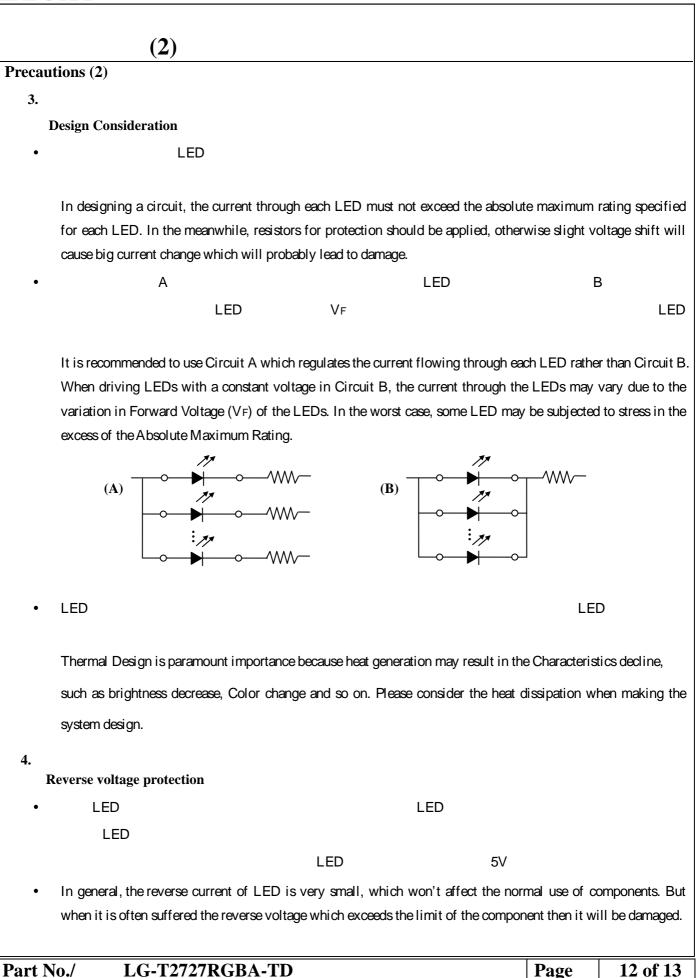
LIGHT ELECTRONI	ICS CO., LTI).	V
2			
Guideline for Soldering (2)			
Reflow soldering should not be done more than one time	<u>).</u>		
LED			
Stress on the LEDs should be avoided during heating in	the reflow soldering	ng process.	
After soldering, do not deal with the product before its te	emperature drop d	own to room temperatur	e.
3.			
Cleaning			
	30	3	50
30		LED	
It is recommended that alcohol Anhydrous ethanol be is to go under 30 for 3 minutes or 50 for 30 seconds		-	
beforehand whether the solvents will dissolve the packa	-		Johnmed
	300W	LED	
LED			
Ultrasonic cleaning is also an effective way for cleaning	. The influence of	Ultrasonic cleaning on I	ED depends
on factors such as ultrasonic power. Generally, the ultras	-	-	
it will cause LED damage. Before cleaning, a pre-test s occur.	nould be done to	contirm it any damage	to LEDS WIII
PCB			
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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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