



LG-T2727RGBA-TD-A DATA SHEET

 SPEC.NO.
 :
 SZ19081205

 DATE
 :
 2020/05/07

 REV.
 :
 A/1

Approved By:

Checked By:

Prepared By:

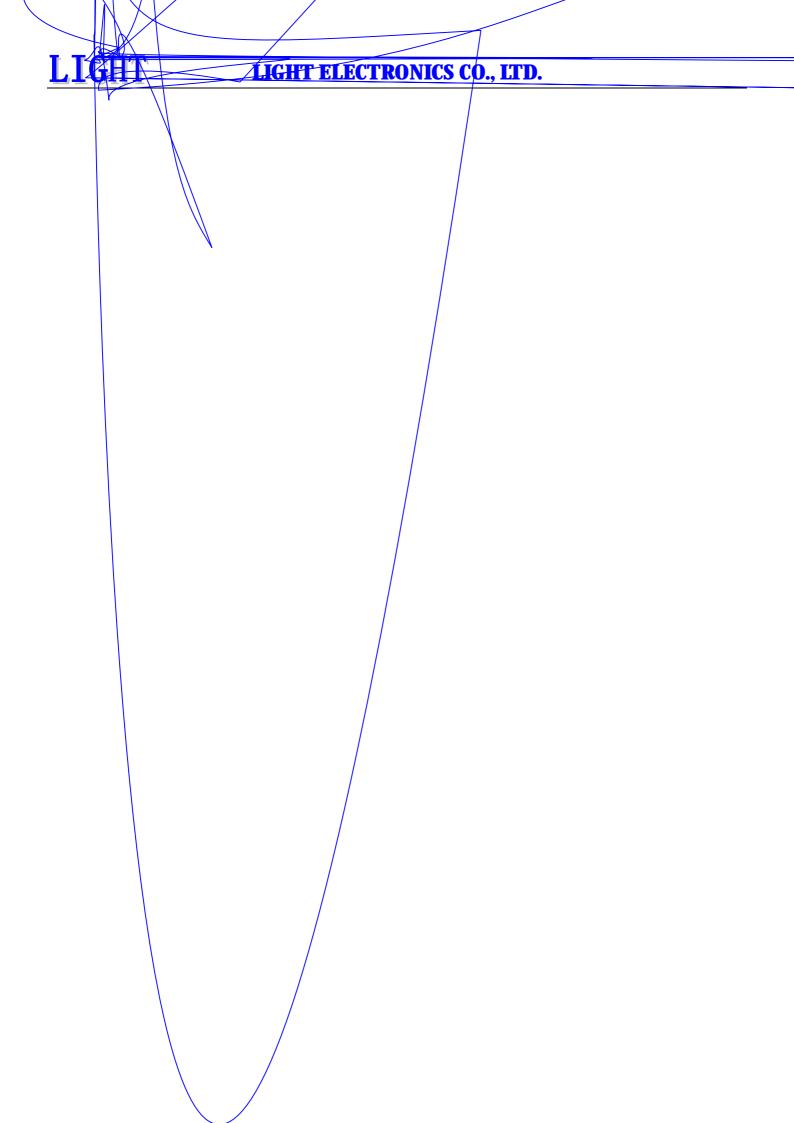
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LG-T2727RGBA-TD-A

TOP Full-color LED

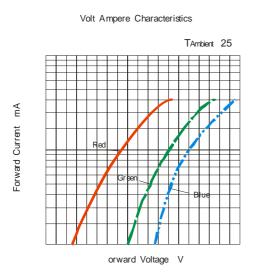




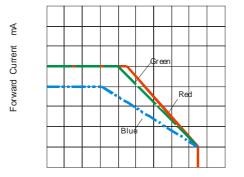
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Relative Luminous Intensity

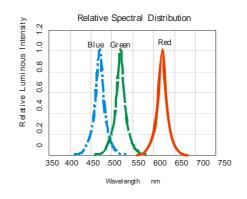
Typical Characteristics Curves



Forward Current Derating Curve



Ambient Temperature

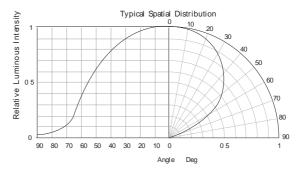






Forward Current mA

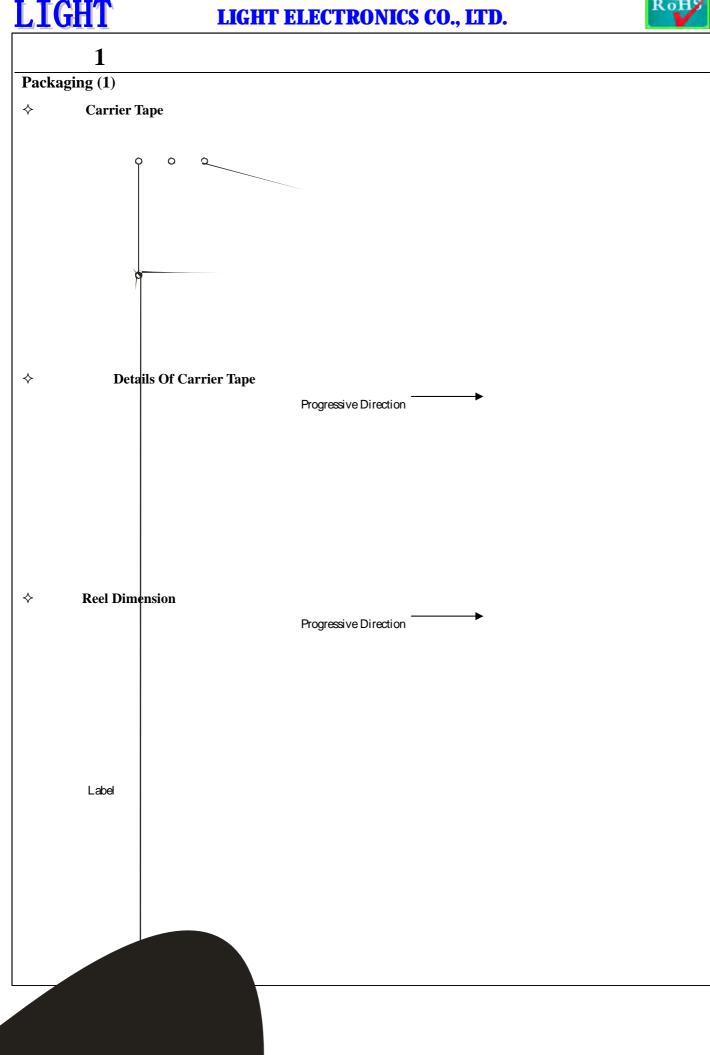


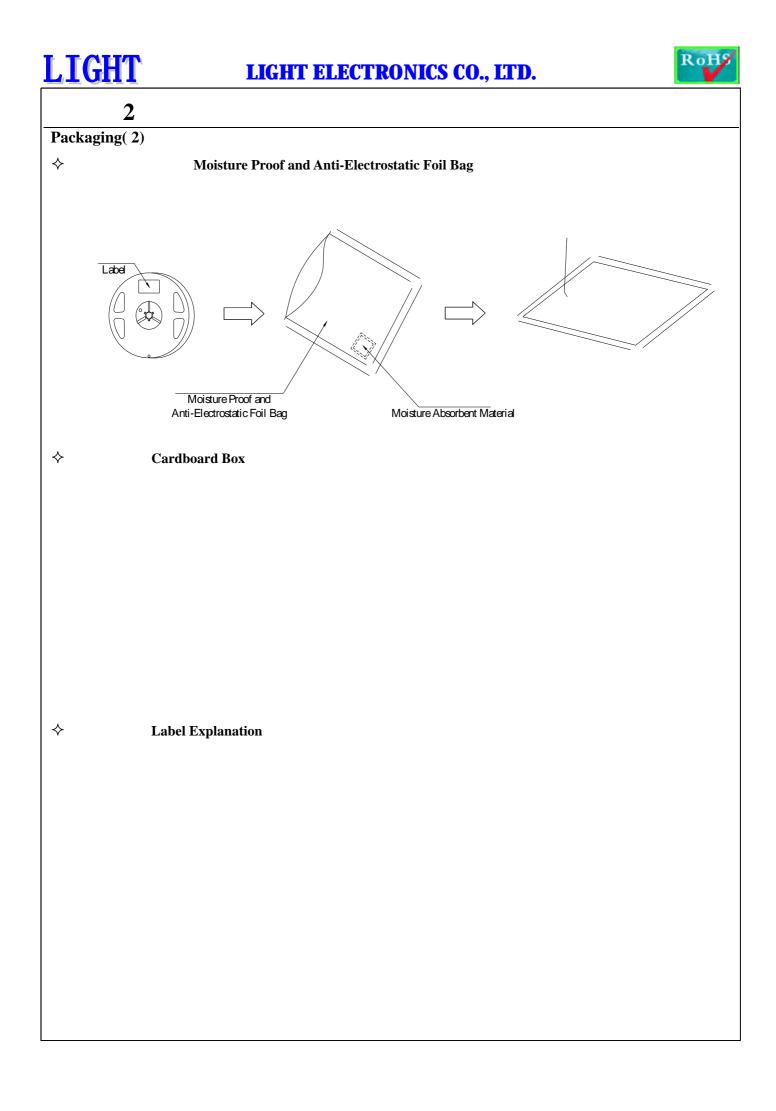














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Guideline for S	Soldering (1)					
1.						
Hand Sole	dering					
•	25	315	3			
the iron	•	ering iron of less than 25W is recommended. The tempera Idering time within 3 seconds and each electrode can b				
•	SMD LED					
The epo	xy resin of the SMD LED should not	contact the tip of the soldering iron.				
•						
No mod	hanical stross should be everted on th	e resin portion by the tip of the soldering iron.				
•	40	LED				
Handing		when the temperature of environment is below 40 , in	case of			
-	-	tress in condition of high temperature.	0000 01			
2.						
	Idering: Use the conditions shown in	the under Figure of Pb-Free Reflow Soldering.				
	德非遇应焊接曲	'我				
分	Recommended Solder	Profile				
260						
2.50		ec255				
Q 217	Remp-up 1-6°C	/200				
200 20		10000				
tur,						
通度 (Tennperature) (C) 81 82	*	60 mec. max				
ding .	/					
Ë	(60-120)	eet 释道 7℃/sec. max ec. Hamp-down 7℃/sec. max				
度		Remp-down 7C/sec. max				
閉		i				
时间(Time)						
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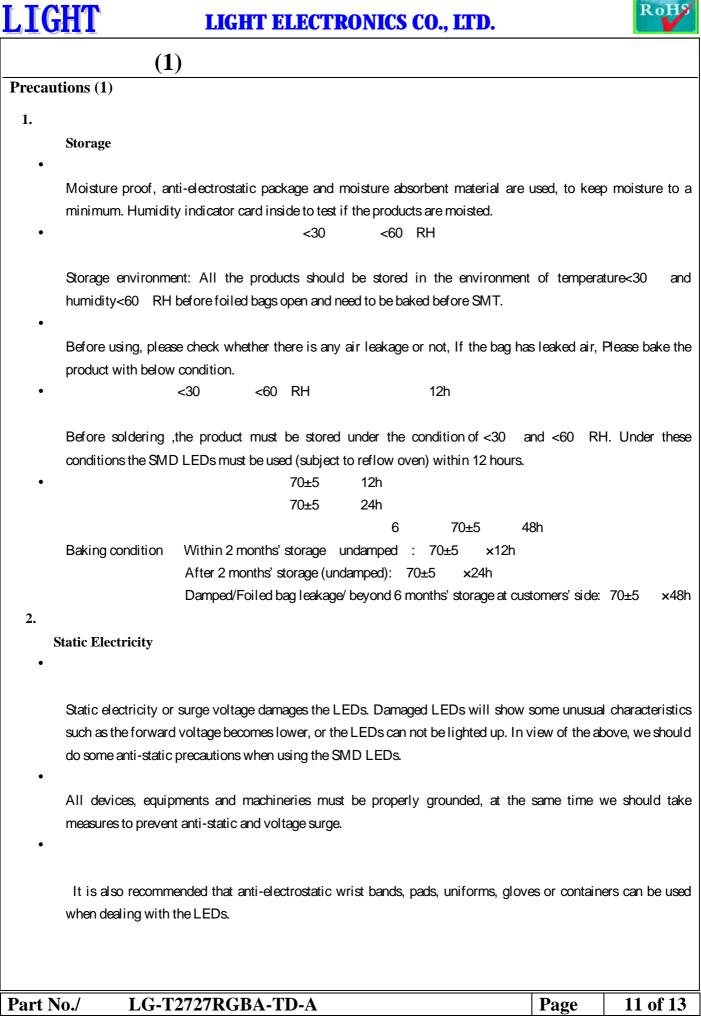
2

Guideline for Soldering (2)

Reflow soldering should not be done more than one time.

LED

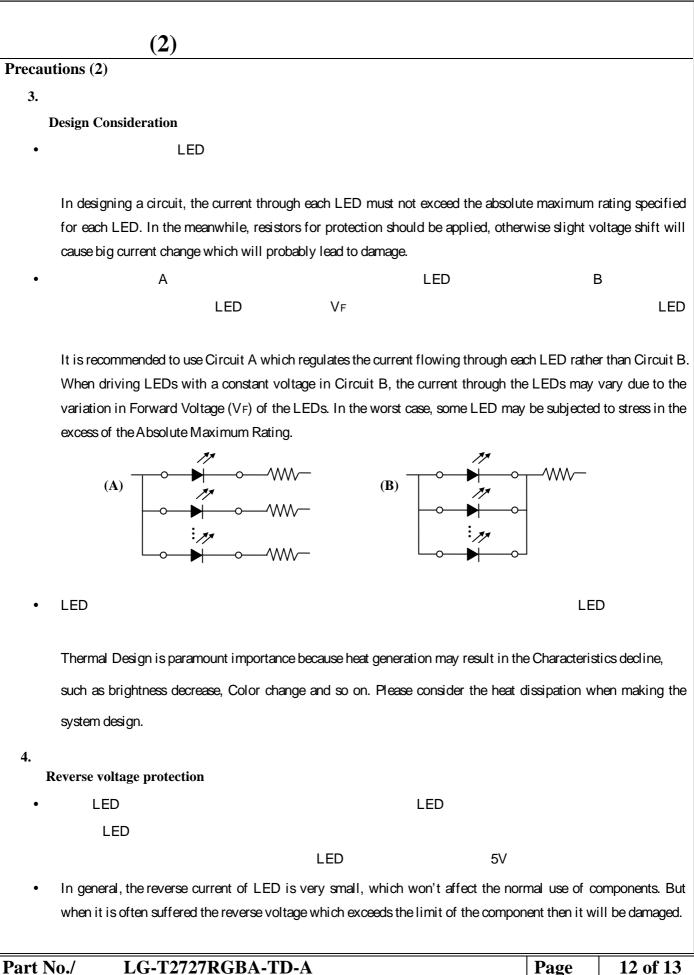
Stress on the LEDs should be avoided during heating in the reflow soldering process.





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(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

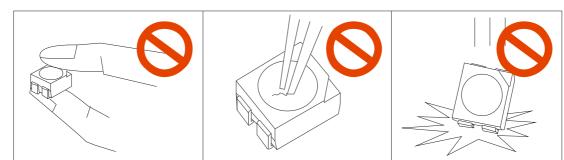
The high temperature will make the LEDs' Luminous Intensity decreased radically, if LEDs are used in hot environment for a long time, they will be disabled easily. When LEDs are used in a high density array, we suggest that the LEDs' surface temperature should be lower than 55 and the legs' temperature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