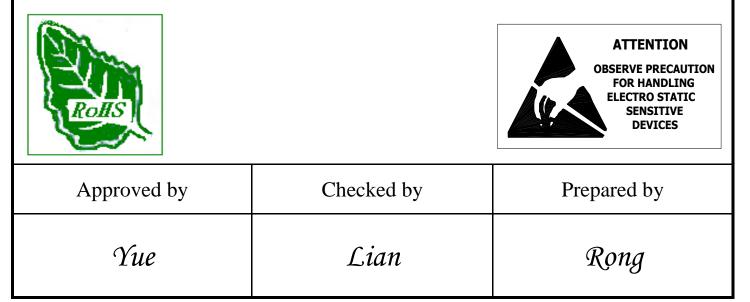


LEDTECH ELECTRONICS CORP.

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# SPECIFICATION

# *PART NO*. : LT8A63-66-RGB-GZ27 0606 SMD CHIP LED



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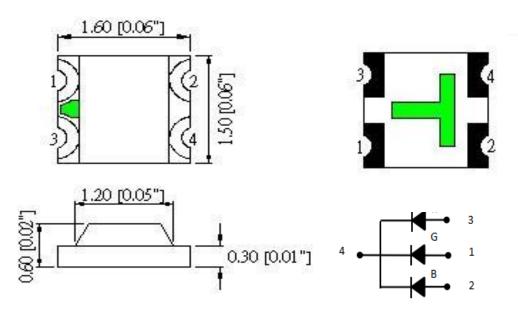
#### ※ Features

- 1. Outline Package: 1.6\*1.5\*0.6mm (Chip View Red and Green and Blue LED)
- 2. Emitted Color: Red and Green and Blue
- 3. Lens Appearance: Water Clear
- 3. Comply with RoHS
- 4. PACKAGE:4000PCS / REEL.

#### **※** Applications

- 1. Optical indicators
- 2.LCD Backlighting
- 3. mobile telephone keypad lights

# **Package Dimensions**



#### Notes:

- 1. All dimensions are in mm.
- 2. Tolerance is  $\pm 0.2$ mm unless otherwise noted.



# Absolute Maximum Ratings at Ta=25 °C

Parameter	Symbol	Value	Unit	
Power dissipation	Pd	44	mW	
Forward current	lf	20	mA	
Reverse voltage	Vr	5	V	
Operating temperature range	Тор	-40 ~+85	°C	
Storage temperature range	Tstg	-40~+100	°C	
Soldering Temperature	Tsol	Max.260°C for 3 sec Max.		
Peak pulsing current	lfp	100	mA	
Electrostatic Discharge	ESD	2000(HBM)	V	

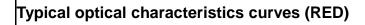
# **Electrical and Optical Characteristics:**

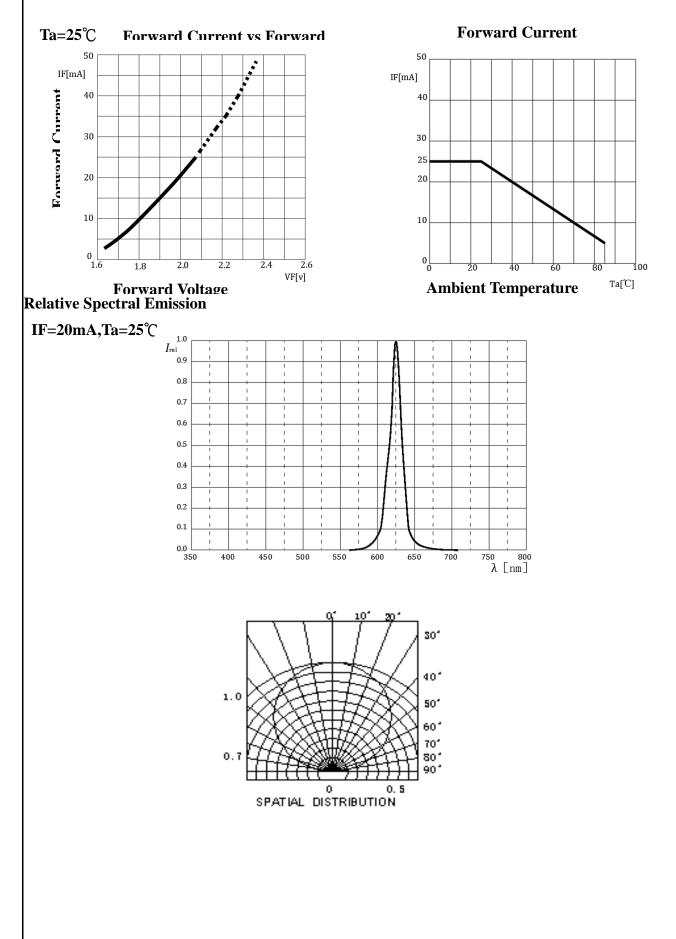
Parameter	Test Condition	Symbol	Value			
			Min.	Тур.	Max.	Unit
Forward voltage IF=20mA		Red	1.8		2.4	V
	IF=20mA	Green	2.8		3.4	V
	Blue	2.8		3.4	V	
Reverse current	VR =5V				1	μA
Dominate Wavelength IF =20mA		Red	615		625	
	IF = 20mA	Green	525		530	nm
	Blue	465		475		
IF =20mA Luminous intensity	Red	200	360			
	Green	400	600		mcd	
		Blue	100	180		
Viewing angle at 50% Iv	IF =20mA			120		DDB

Notes:1. Tolerance of Luminous Intensity is  $\pm 15\%$ 

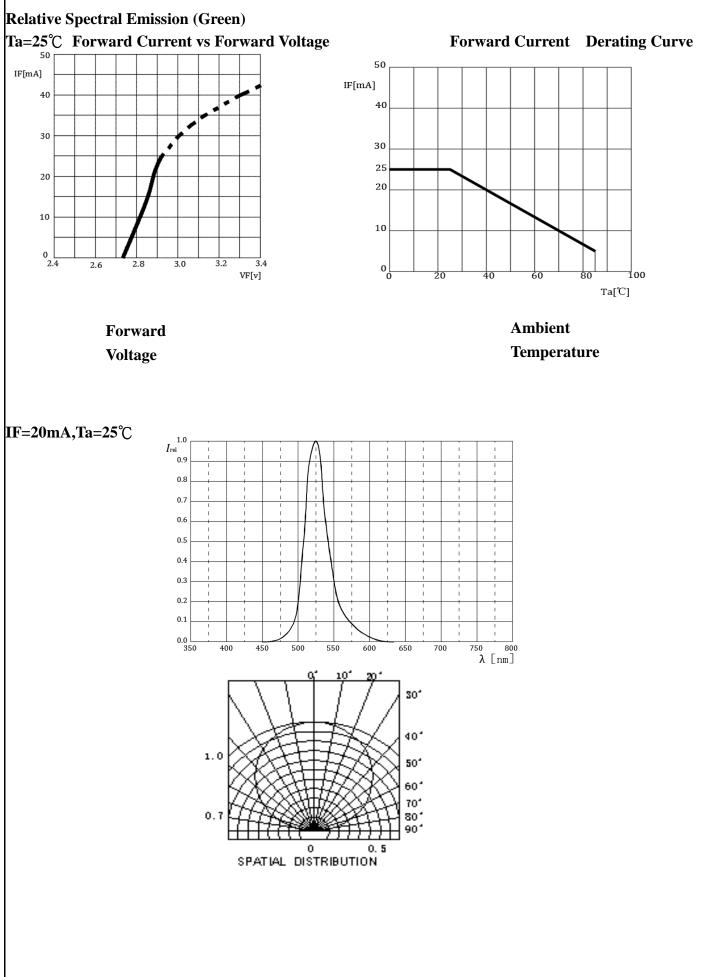
- 2. Tolerance of Forward Voltage is  $\pm 0.1V$
- 3. Tolerance of Dominant Wavelength is ±1nm
- 4. Customer's special requirements are also welcome.



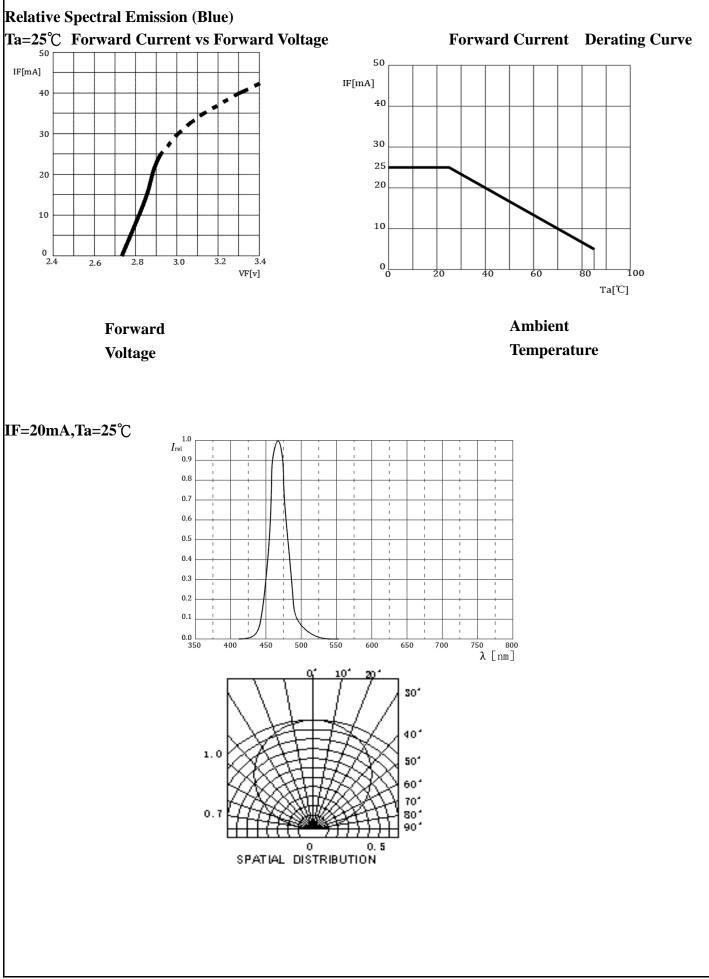












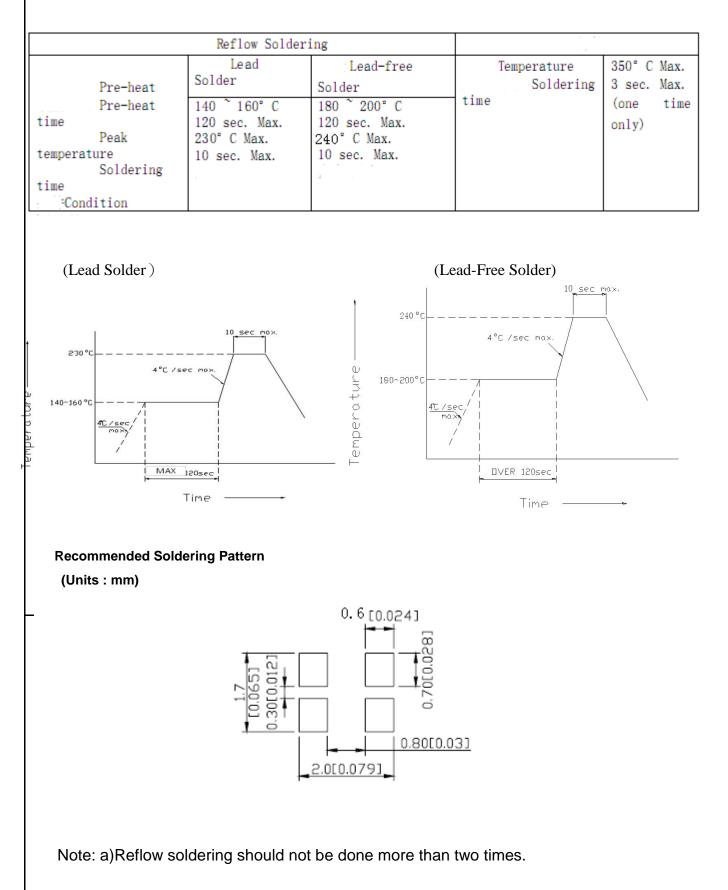


0606 SMD CHIP LED

#### **Reflow Profile**

Pb-free Solder temperature Profile

(Recommended soldering conditions)





b)Do not put stress on the LEDs when soldering.

c)Do not warp the circuit board before it have been returned to normal ambient conditions after soldering.

#### Hand Soldering Profile

The temperature of the iron should be lower than  $300^{\circ}$ C and soldering within 3sec per solder-pad is to be observed.

#### **Storage Profile**

- 1. Do not open the moisture proof bag before ready to use the LEDs
- 2. The LEDs should be kept at  $30^{\circ}$ C or less and 60%RH or less before opening the package. The max. storage period before opening the package is 1 year.
- After opening the package, the LEDs should be kept at 30°C/40%RH or less, and it should be used within 7 days
- If the LEDs be kept over the condition of 3, baking is required before mounting. Baking condition as below: 60±5°C for 24 hours



### Sulfur-sensitive

- There is silver-plated metal part on the inner/outer side of the outer package. If exposed to the condition with corrosive gas, the silver plating surface may go bad, which will affect soldering strength and optical properties. Therefore, after opening it must be kept in a sealed container, etc.
- Materials contain sulfur component (gasket, adhesive, etc.) may have bad effects on the surface of the coating, so please do not use such materials in the product.
- In cardboard boxes and rubber, even in the atmosphere may contain minute amount of corrosive gases; In addition, the resin material may also contain halogen which has a bad effect on the surface of the coating.
- Even if the soldering installation and product assembly finished, by the effect of corrosive gas generated by relative materials of LED and external injected, the coating surface may go bad, so it is necessary to design the product taking into account the above factors.
- If requires, it is best to use a silicone washer, but be aware that low molecular silicone may cause the product poor contact.
- Keep the product in location where has less temperature change, because moisture condensation would be generated under a condition of strong temperature change.

# DISCLAIMER

- **1.** Our department reserves the right(s) on the adjustment of product material mix for the specification.
- 2.The product meets our department published specification for a period of twelve (12) months from date of shipment.
- 3. The graphs shown in this datasheet are representing typical data only and do not show guaranteed values.
- 4.When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. Our department assumes no responsibility for any damage resulting from the use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
- 5. These specification sheets include materials protected under copyright of our department.

Reproduction in any form is prohibited without obtaining our department's prior consent.

6. This product is not intended to be used for military, aircraft, automotive, medical, life sustaining or life saving applications or any other application which can result in human injury or death.



# Packaging

