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SPECIFICATION

PART NO. : LT8A62-66-R2W-GZ44

0606 SMD CHIP LED

PRELIMINARY



Approved by

Checked by

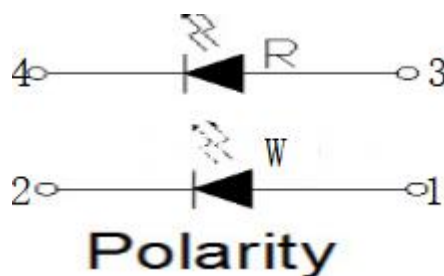
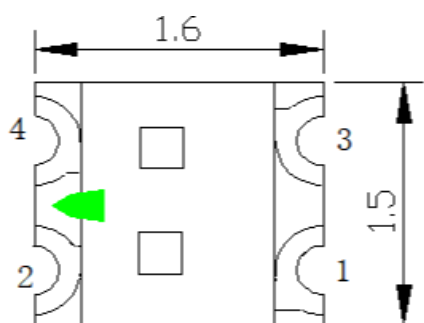
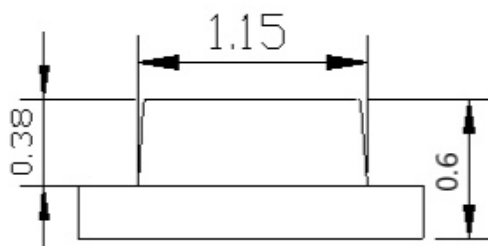
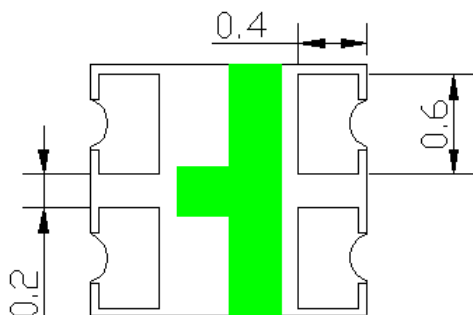
Prepared by

Yue

Lian

Liang Dai

Package Dimensions



Notes:

1. All dimensions are in mm.
2. Tolerance is ± 0.1 mm unless otherwise noted.

Description

Part No.	LED Chip		Lens Color
	Material	Emitting Color	
LT8A62-66-R2W-GZ44	AlGaInP	Red	Yellow Disffuser
	InGaN/Sapphire	White	

Absolute Maximum Ratings at Ta=25

Parameter	Symbol	Rating		Unit
		R	W	
Power Dissipation	P _D	42	60	mW
Reverse Voltage	V _R	5		V
D.C. Forward Current	I _f	20		mA
Peak pulsing current (1/8 duty f=1kHz)	I _f (Peak)	100		mA
Operating Temperature Range	T _{opr.}	-40 ~+85		°C
Storage Temperature Range	T _{stg.}	-40 ~+100		°C
ESD(HBM,R=100KΩ,C=100pF)	--	2000		V
Soldering Temperature.	T _{sol.}	Reflow Soldering:260°C for 10 sec.		

Electrical and Optical Characteristics:

Parameter	Test Condition	Symbol		Value			Unit
				Min	Typ	Max	
Dominant wavelength	I _f =20mA	λ _d	R	615	--	630	nm
	I _f =20mA	TC	W	6000	--	8000	K
Forward voltage	I _f =20mA	V _f	R	1.8	--	2.4	V
			W	2.6	--	3.4	
Luminous intensity	I _f =20mA	I _v	R	120	--	200	mcd
			W	1000	--	1500	
Viewing angle at 50% I _v	I _f =10mA	2θ 1/2		--	120	--	Deg
Reverse current	V _r =5V	I _r		--	--	1	μA

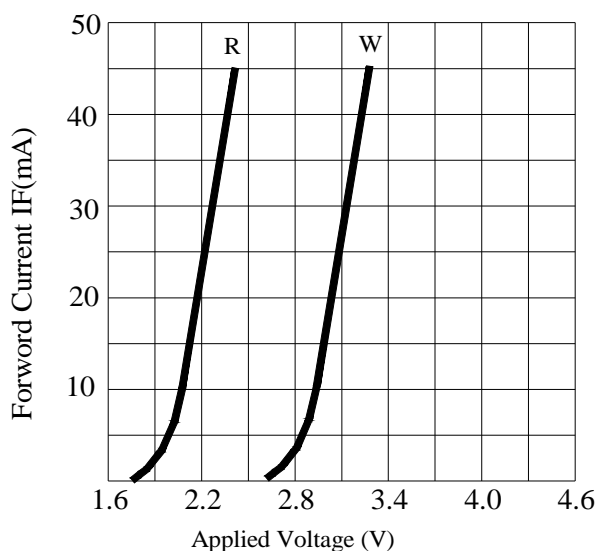
NOTE: 1. Tolerance of luminous intensity is ±10%

2. Tolerance of forward voltage is ±0.05V

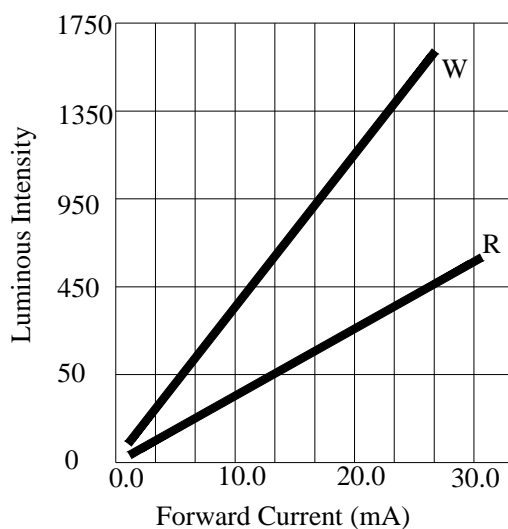
3. Tolerance of measurement of dominant wavelength is ±1nm.

Typical Electrical/Optical Characteristic Curves

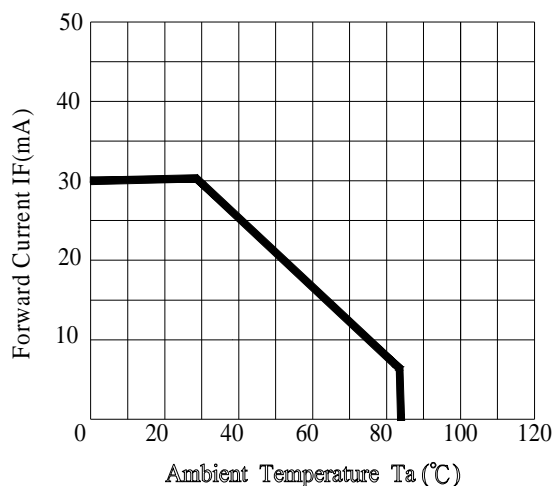
(25°C Ambient Temperature Unless Otherwise Noted)



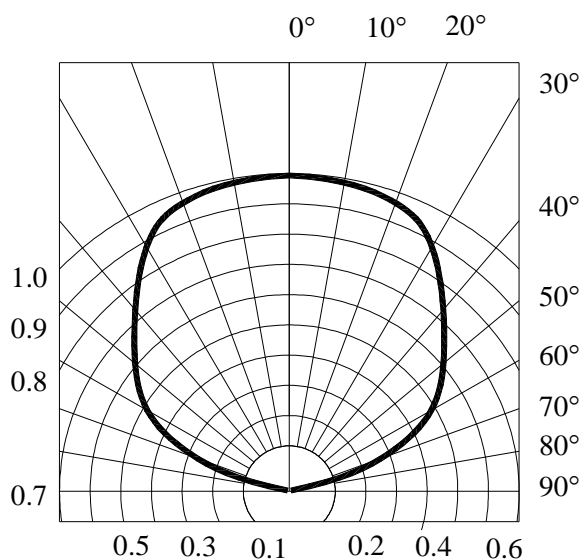
Forward Current VS. Applied Voltage



Forward Current VS. Luminous Intensity



Ambient Temperature VS. Forward Current



Radiation Diagram

Precautions in Use:

Storage

Recommend storage environment

Temperature : $5^{\circ}\text{C} \sim 30^{\circ}\text{C}$ ($41^{\circ}\text{F} \sim 86^{\circ}\text{F}$)

Humidity : 60% RH Max.

Moisture measures: Please refer to Moisture-sensitive label on reels package bags.

If unused LEDs remain, they should be stored in moisture proof packages, such as sealed container with packages of moisture absorbent material (silica gel). It is also recommended to return the LEDs to the original moisture proof bag and to reseal the moisture proof bag again.

Fold the opened bag firmly and keep in dry environment.

Soldering

Reflow Soldering

Recommend use of upper and lower heater type reflow furnace.

240°C Max for up to 10 seconds, one time only.

Pre-heat is 150°C Max for up to 2 minutes Max.

In case of screen-printing, keep metal mask thickness between 0.2mm and 0.3mm.

Cleaning

Surface condition of this device may change when organic solvents such as trichloroethylene or acetone were applied.

Avoid using organic solvent.

Recommend ultrasonic method 300W Max.

Packaging

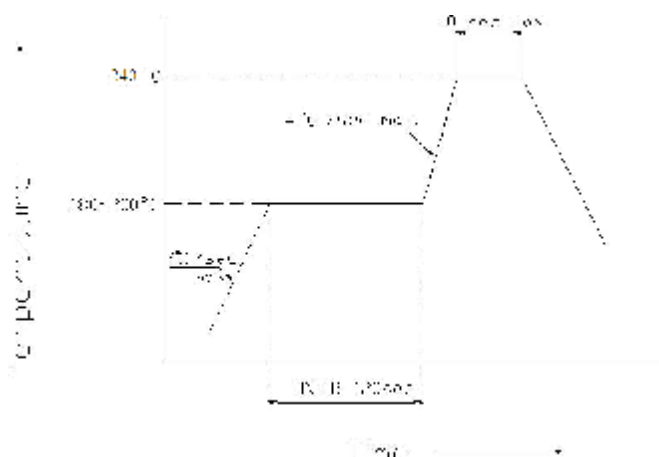
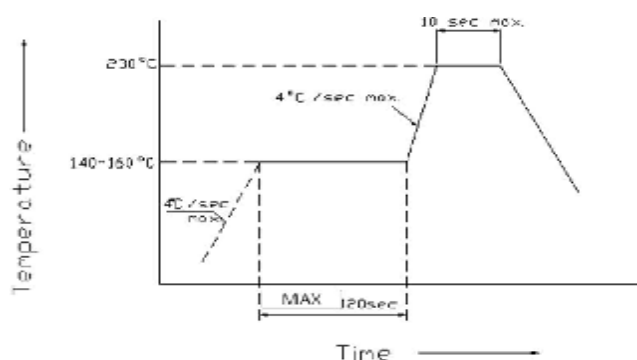
EIA-481A standard package.

In 8mm tape on 4000 pcs diameter reels sealed in vapor/ESD barrier bags.

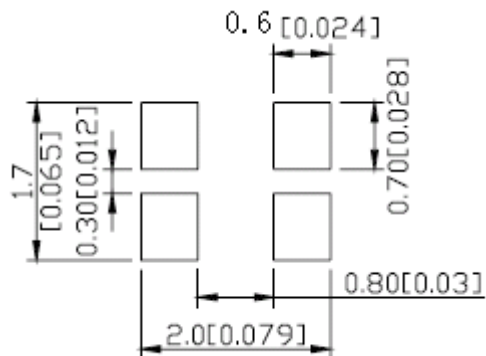
Reflow Temp/Time:

(Lead Solder)

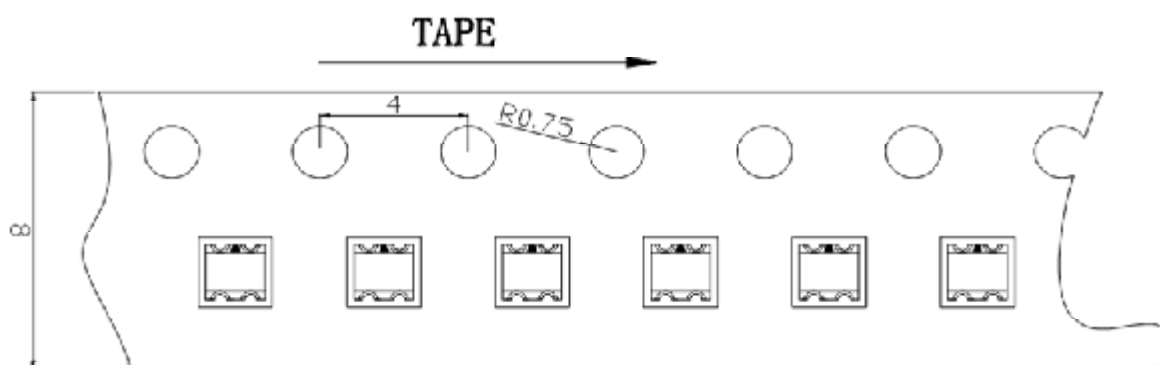
(Lead-Free Solder)



Reflow Soldering Pad Dimensions

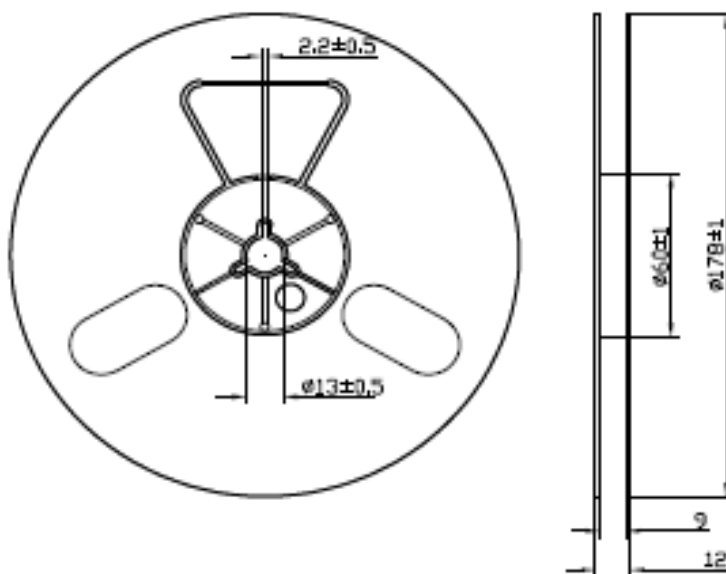


Dimensions for Tape



Package: 4000 pcs/reel

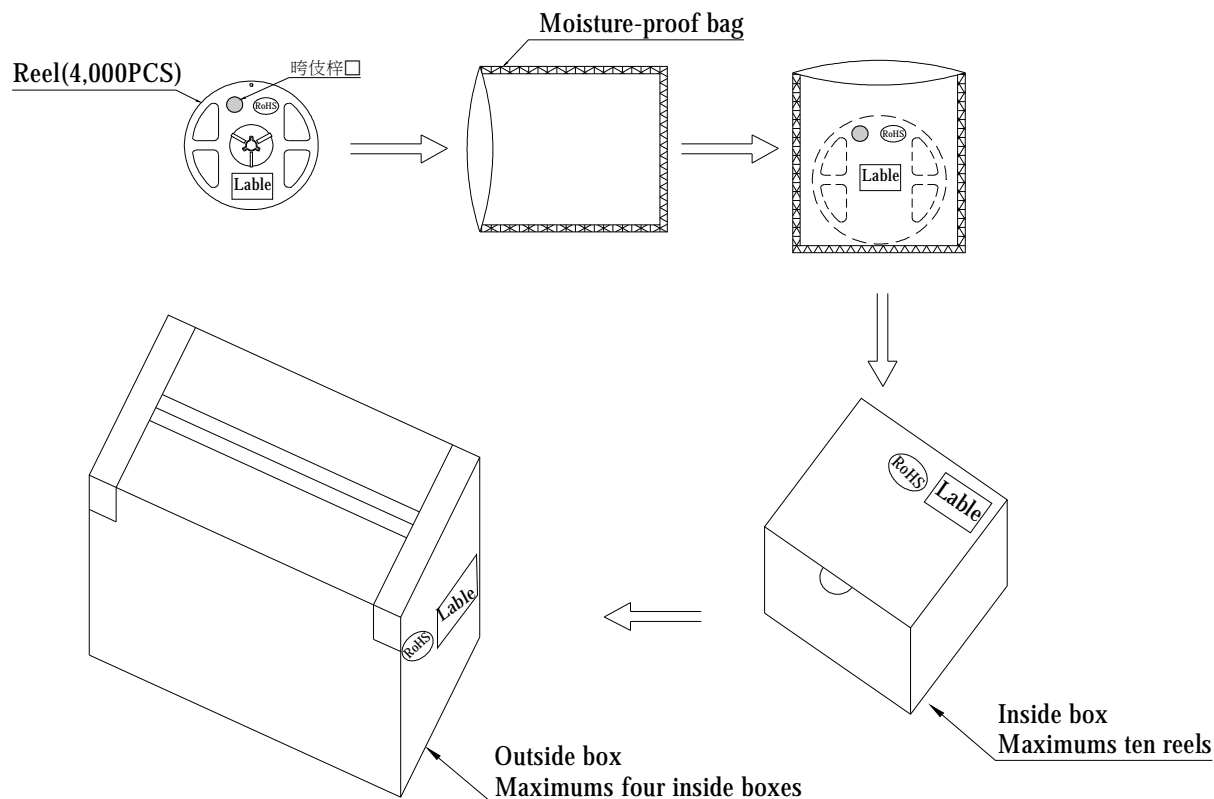
Dimensions for Reel



Notes:

- 1.All dimensions are in mm, tolerance is ± 2.0 mm unless otherwise noted.
- 2.Specifications are subject to change without notice.

Dimensions for Tape



Notes:

Reeled products (numbers of products are 4,000pcs) packed in a seal off moisture-proof bag along with a desiccant one by one, ten moisture-proof bag of maximums (total maximum number of products are 40,000pcs) packed in an inside box (about size: 240x 220x 120mm) and four inside boxes of maximums are put in the outside box (about size: 460mm x 246mm x 250mm) Together with buffer material, and it is packed. (Part No., Lot No., quantity should appear on the label on the moisture-proof bag, part No. And quantity should appear on the label on the cardboard box.) The number of the loading steps of outside box (cardboard box) has it to three steps.

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. Please contact authorized our department sales agent for special application request.**