

# NANYA ROAD, MUGANG ZHAOQING CITY GUANGDONG CHINA.

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Http://www.ledtech.com.tw

# **SPECIFICATION**

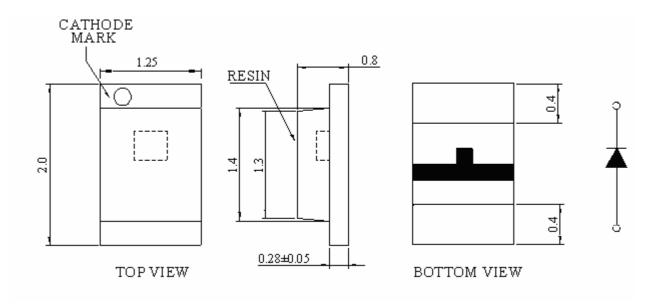
*PART NO.* : LT8A22-43-UR96-T4 0805 SMD CHIP LED



Approved by	Checked by	Prepared by
Tung	Lian	Jack



## **Package Dimensions**



#### **Notes:**

- 1. All dimensions are in mm.
- 2. Tolerance is  $\pm 0.1$ mm unless otherwise noted.

## **Description**

	LED (	Lens Color	
Part No.	Part No. Material		
LT8A22-43-UR96-T4	AlGaInP/GaAs	Yellow Green	White Diffused

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# Absolute Maximum Ratings at Ta=25 $^{\circ}$ C

Parameter	Symbol	Rating	Unit
Power Dissipation	PD	72	mW
Reverse Voltage	VR	5	V
D.C. Forward Current	If	30	mA
Peak Current(1/10Duty Cycle,0.1ms Pulse Width.)	If(Peak)	80	mA
Operating Temperature Range	Topr.	-30 to +80	$^{\circ}$
Storage Temperature Range	Tstg.	-40 to +85	$^{\circ}\!\mathbb{C}$
Soldering Temperature.	Tsol.	Reflow Soldering:260°C for 10 sec	

### **Electrical and Optical Characteristics:**

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Intensity	Iv	If=20mA	16.5	30		mcd
Forward Voltage	Vf	If=20mA	1.8		2.4	V
Peak Wavelength	λр	If=20mA		575		nm
Dominant Wavelength	λd	If=20mA		571		nm
Reverse Current	Ir	Vr=5V			100	μΑ
Viewing Angle	2 θ 1/2	If=20mA		140		deg
Spectrum Line Halfwidth	Δλ	If=20mA		20		nm

Notes:1.The datas tested by IS tester.

2. Customer's special requirements are also welcome.

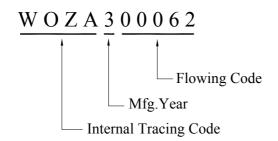
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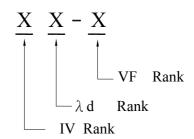
# **Product Specification**

	Specification	Material	Quantity
IV	P: 16.5-24.4 mcd Q: 24.4-36.7 mcd R: 36.7-51.6 mcd @20mA		
λD	28: 564-568nm 29: 568-570 nm 30: 570-572 nm 31: 572-574 nm 32: 574-576 nm @20mA		
VF	G:1.8-2.0 V H:2.0-2.2V J: 2.2-2.4V @20mA		
Ir	<100μA @Vr=5V		
Resin	White diffused	Epoxy resin	
Carrier tape		Conductive black tape	4000pcs per reel
Reel		White	
Label	LT standard	Paper	
Packing bag	250×220mm	Aluminum laminated bag	One reel one bag
Carton	LT standard	Paper	Non-specified
Others:	•	,	1





### BIN CODE:

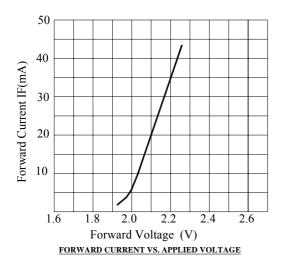


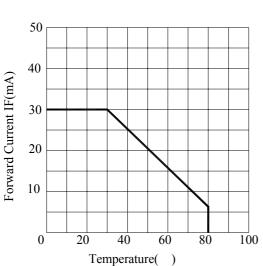
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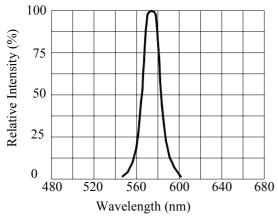
### **Typical Electrical/Optical Characteristic Curves**

### (25°C Ambient Temperature Unless Otherwise Noted)

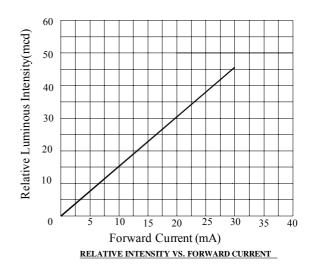


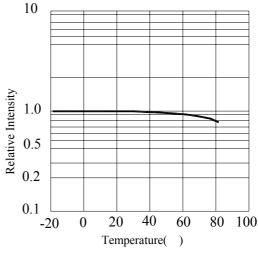


FORWARD CURRENT VS. AMBIENT TEMPERATURE

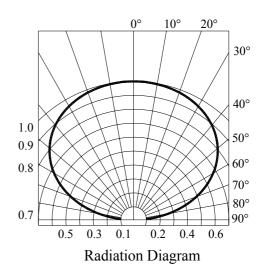


RELATIVE INTENSITY VS. WAVELENGTH





RELATIVE INTENSITY VS. AMBIENT TEMPERATURE



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#### **Precautions in Use:**

#### Storage

Recommend storage environment

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

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.

260°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.

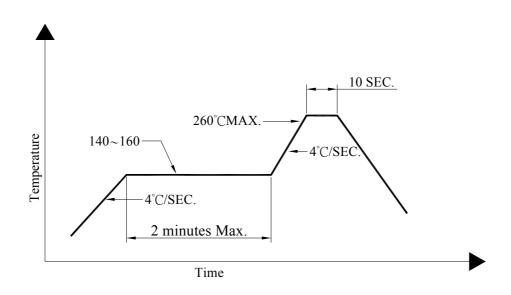
Recommend ultrasonic method 300W Max.

#### **Packaging**

EIA-481A standard package.

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

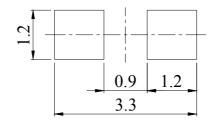
### Reflow Temp/Time:



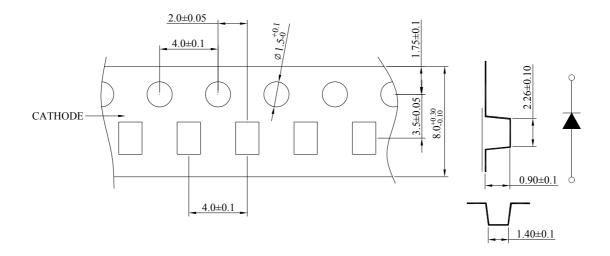
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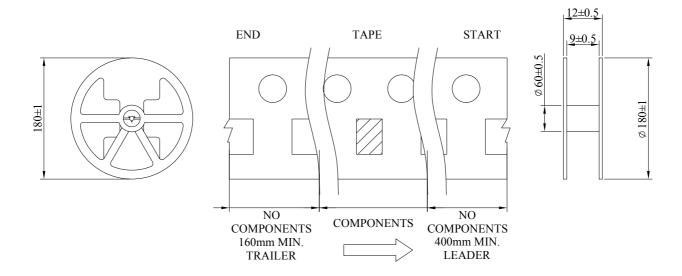
### **Reflow Soldering Pad Dimensions**



### **Dimensions for Tape**



### **Dimensions for Reel**



#### **Notes**:

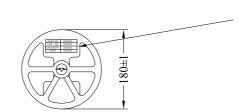
- 1.All dimensions are in mm, tolerance is±2.0mm unless otherwise noted.
- 2. Specifications are subject to change without notice.

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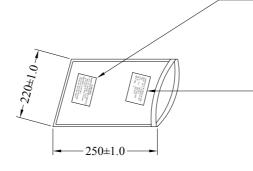
### **Dimensions for Tape**





PART NO	XXXXX
LOT NO	XXXXX
QUANTITY	XXXXX
DATE	XXXXX
BIN CODE	XXXXX

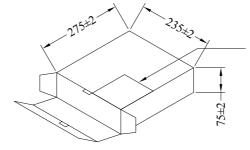
**Bag:** 4,000PCS



PART NO	XXXXX
LOT NO	XXXXX
QUANTITY	XXXXX
DATE	XXXXX
BIN CODE	XXXXX

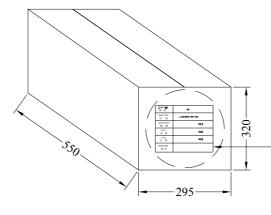
Moisture-sensitive label

**5 Bags**: 20,000PCS



PART NO	XXXXX
LOT NO	XXXXX
BIN CODE	XXXXX
QUANTITY	XXXXX
DATE	XXXXX

**8 Boxes :**160,000PCS



C/T NO	XX
PART NO	XXXXX
QUANTITY	PCS
N. W.	KGS
G. W.	KGS
REMARK	

#### **Notes:**

- 1.7 inch reel-4000 pieces per reel.
- 2. Minimum packing quantity is 500 pieces for remainders.
- 3. The maximum number of consecutive missing lamps is two.

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