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SPECIFICATION

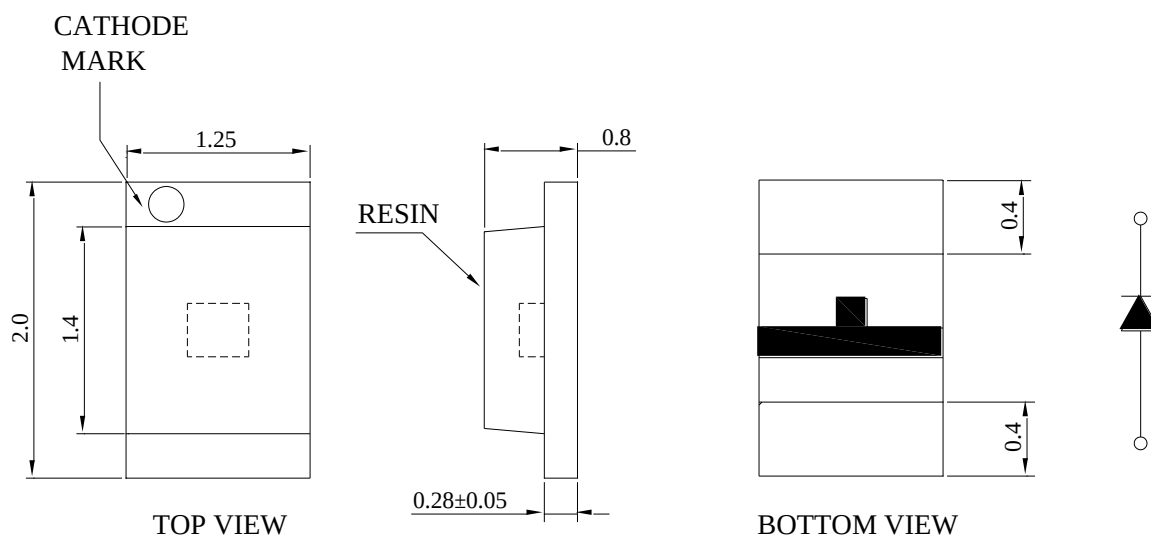
PART NO. : LT8A22-43-UA96-T4

0805 SMD CHIP LED



Approved by	Checked by	Prepared by
<i>Yue</i>	<i>Lian</i>	<i>Yongcai chen</i>

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	
LT8A22-43-UA96-T4	InGaInP/GaAs	Yellow Green	White diffused

Absolute Maximum Ratings at Ta=25 °C

Parameter	Symbol	Rating	Unit
Power Dissipation	P _D	72	mW
Reverse Voltage	V _R	5	V
D.C. Forward Current	I _f	30	mA
Peak Current(1/10Duty Cycle,0.1ms Pulse Width.)	I _f (Peak)	80	mA
Operating Temperature Range	T _{opr.}	-30 to +80	°C
Storage Temperature Range	T _{stg.}	-40 to +85	°C
Soldering Temperature.	T _{sol.}	Reflow Soldering:260°C for 10 sec.	

Electrical and Optical Characteristics:

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	I _v	I _f =20mA	24.4	45		mcd
Forward Voltage	V _f	I _f =20mA	1.8		2.4	V
Peak Wavelength	λ _p	I _f =20mA		575		nm
Dominant Wavelength	λ _d	I _f =20mA		571		nm
Reverse Current	I _r	V _r =5V			100	μA
Viewing Angle	2 θ 1/2	I _f =20mA		140		deg
Spectrum Line Halfwidth	Δλ	I _f =20mA		20		nm

Notes: 1.Tolerance of Luminous Intensity is ±15%.

2.Tolerance of Forward Voltage is ±0.1V.

3.Tolerance of Dominant Wavelength is ±1nm.

Luminous Intensity Rank Combination (IF=20mA)

Rank	Min.	Max.	Unit
Q	24.4	36.7	mcd
R	36.7	51.6	
S	51.6	75.6	

Dominant wavelength Rank Combination (If=20mA)

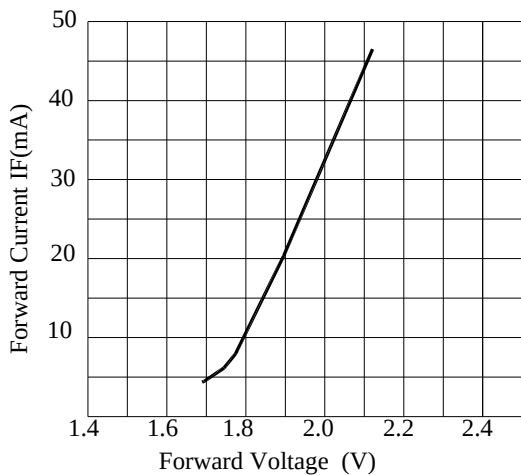
Rank	Min.	Max.	Unit
29	568	570	nm
30	570	572	
31	572	574	
32	574	576	

Forward Voltage Rank Combination (If=20mA)

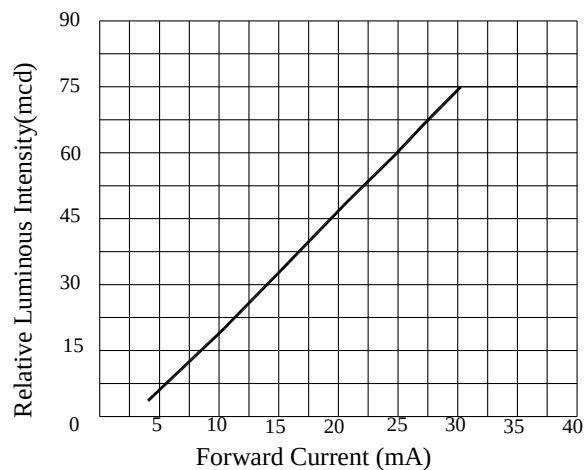
Rank	Min.	Max.	Unit
G	1.8	2.0	V
H	2.0	2.2	
J	2.2	2.4	

Typical Electrical/Optical Characteristic Curves

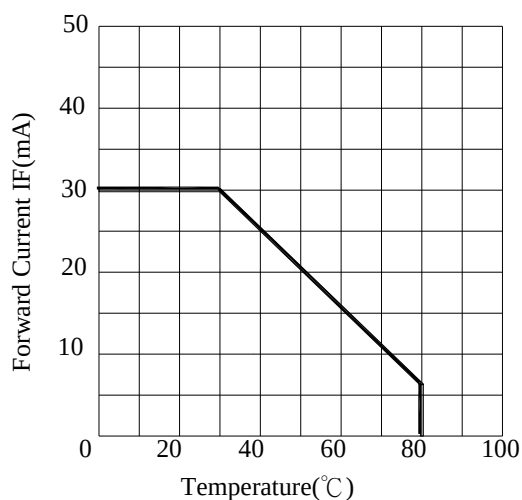
(25°C Ambient Temperature Unless Otherwise Noted)



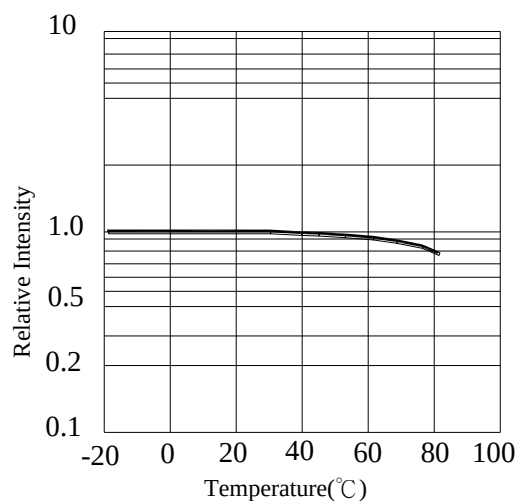
FORWARD CURRENT VS. APPLIED VOLTAGE



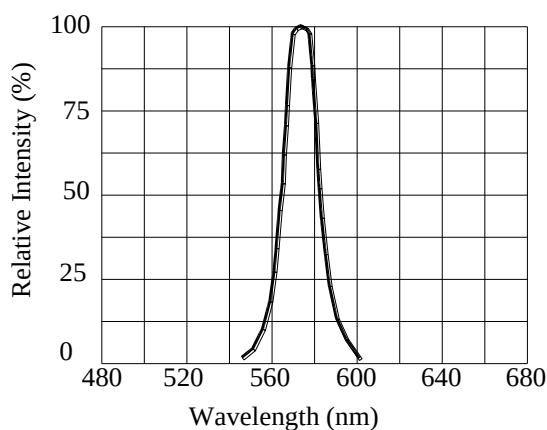
RELATIVE INTENSITY VS. FORWARD CURRENT



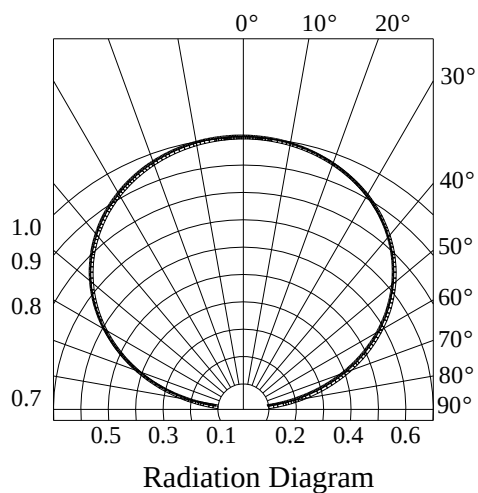
FORWARD CURRENT VS. AMBIENT TEMPERATURE



RELATIVE INTENSITY VS. AMBIENT TEMPERATURE



RELATIVE INTENSITY VS. WAVELENGTH



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.

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.

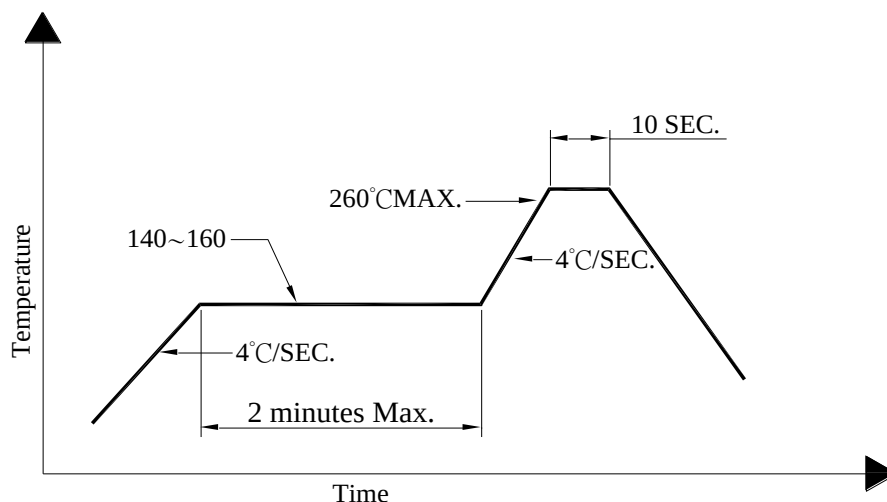
Avoid using organic solvent.

Recommend ultrasonic method 300W Max.

Packaging

EIA-481A standard package.

In 8mm tape on 5000 pcs diameter reels sealed in vapor/ESD barrier bags.

Reflow Temp/Time:

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

Technical drawing of a rectangular plate with a hole. The overall width is 3.3, the overall height is 1.2, and the hole diameter is 0.9. The hole is positioned 1.2 units from the right edge. The drawing includes a top view and a side view, with a dashed line indicating the hole's position in the side view.

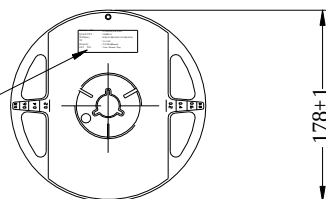
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Dimensions for Tape

REEL

QUANTITY: 5,000 PCS

LEDTECH ELECTRONICS CORP.
PART NO :LTXXXX-XX
QTY : PCS
LOT NO :XXXXXXXXXX
DATE :
BIN CODE:

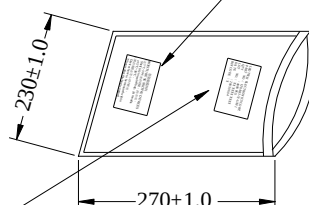


Moisture-sensitive label

BAG

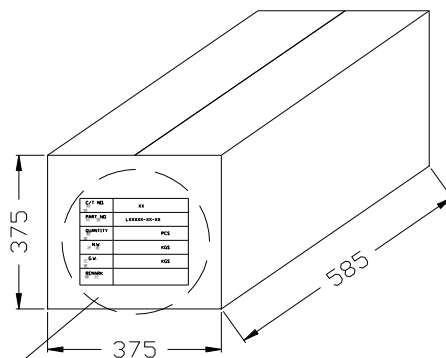
QUANTITY: 5,000 PCS

LEDTECH ELECTRONICS CORP.
PART NO :LTXXXX-XX
QTY : PCS
LOT NO :XXXXXXXXXX
DATE :
BIN CODE:



OUTER CARTON:
QUANTITY: 85 BAGS
TOTAL: 425,000PCS

C/T NO. 箱 號	XX
PART NO. 料 號	XXXXXXXXXXXXXX
QUANTITY 數 量	PCS
N.W. 淨 重	KGS
G.W. 毛 重	KGS
REMARK 備 註	



Notes:

- 1.7 inch reel-5000 pieces per reel.
- Minimum packing quantity is 500 pieces for remainders.
- The maximum number of consecutive missing lamps is two.