



LEDTECH ELECTRONICS CORP.

NANYA ROAD,MUGANG ZHAOQING
CITY GUANGDONG CHINA.

TEL:86-758-2875541,2870651,2877464,2876185,2877017

FAX:86-758-2878014

Http://www.ledtech.com.tw

SPECIFICATION

PART NO. : LT8A13-43-UJF7-T4

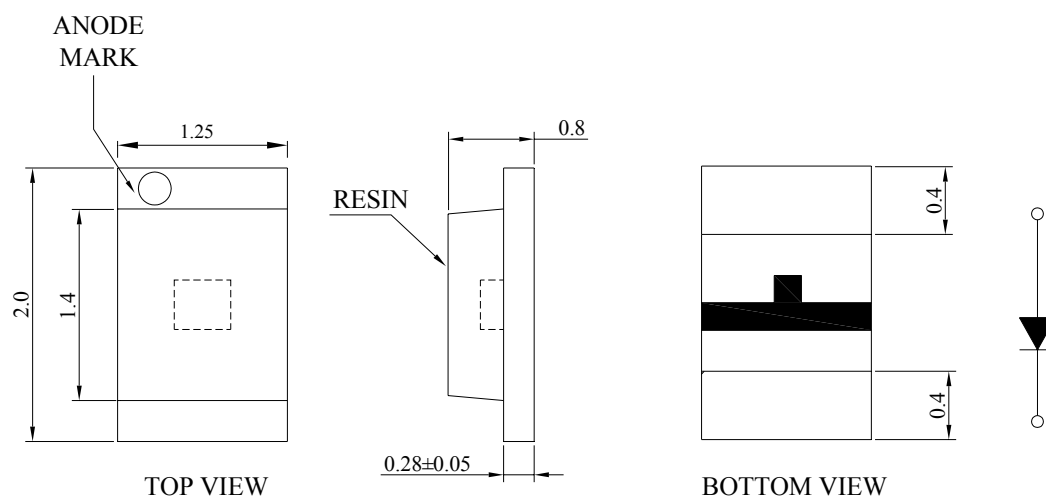
0805 SMD CHIP LED



Approved by	Checked by	Prepared by
<i>Tung</i>	<i>Lian</i>	<i>Karen</i>

Property of Ledtech Corporation. Unauthorized changes or alterations to the specification are prohibited.

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	
LT8A13-43-UJF7-T4	AlGaInP/Si	Hyper Red	Water Clear

Absolute Maximum Ratings at Ta=25 °C

Parameter	Symbol	Rating	Unit
Power Dissipation	P _D	78	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:

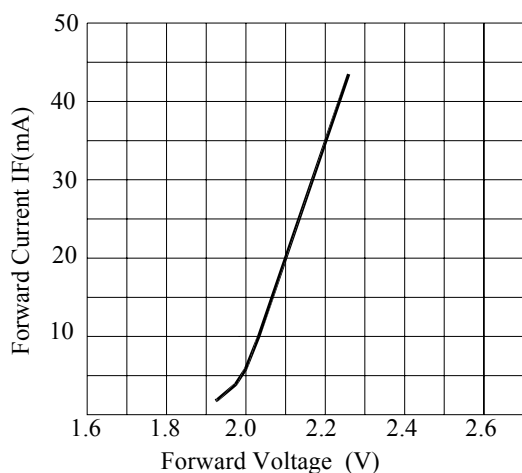
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	I _v	I _f =20mA	165	300		mcd
Forward Voltage	V _f	I _f =20mA		2.1	2.6	V
Peak Wavelength	λ _p	I _f =20mA		632		nm
Dominant Wavelength	λ _d	I _f =20mA		625		nm
Reverse Current	I _r	V _R =5V			100	μA
Viewing Angle	2 θ 1/2	I _f =20mA		130		deg
Spectrum Line Halfwidth	Δλ	I _f =20mA		20		nm

Notes:1.The datas tested by IS tester.

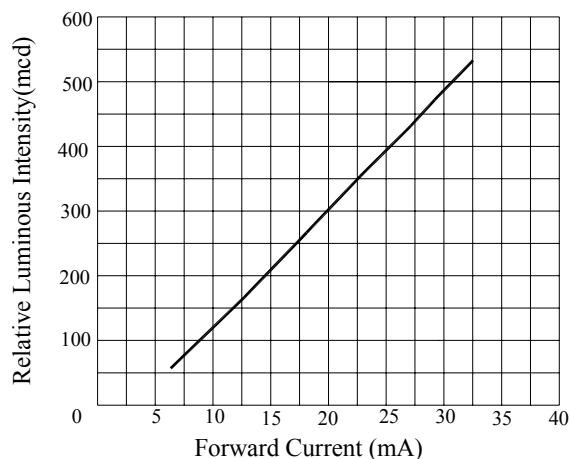
2. Customer's special requirements are also welcome..

Typical Electrical/Optical Characteristic Curves

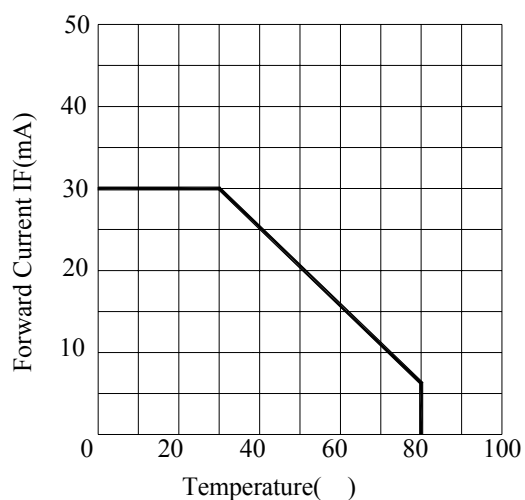
(25°C Ambient Temperature Unless Otherwise Noted)



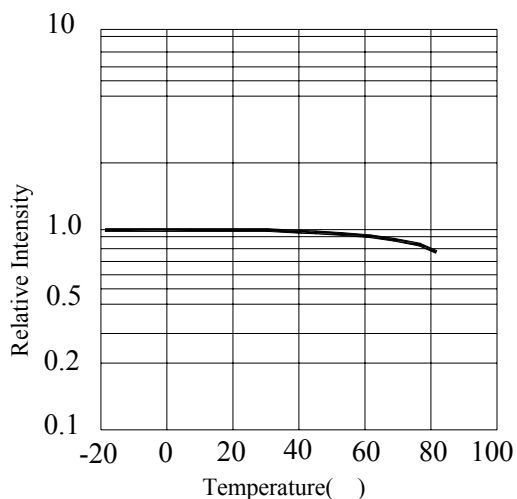
FORWARD CURRENT VS. APPLIED VOLTAGE



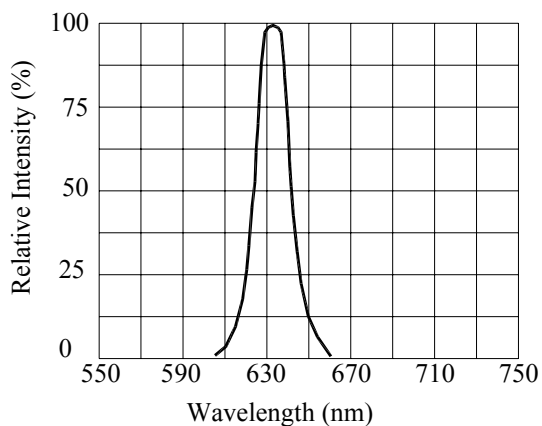
RELATIVE INTENSITY VS. FORWARD CURRENT



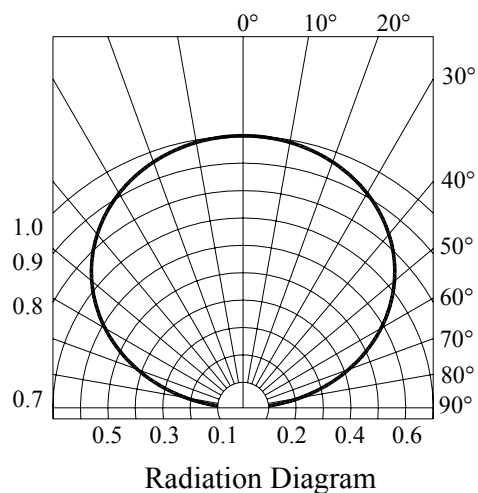
FORWARD CURRENT VS. AMBIENT TEMPERATURE



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.

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.

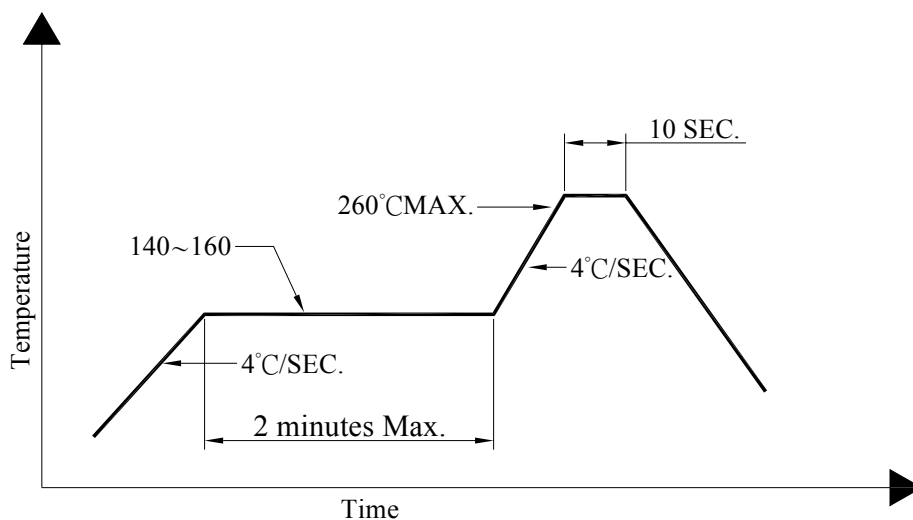
Recommend ultrasonic method 300W Max.

Packaging

EIA-481A standard package.

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

Reflow Temp/Time:



The diagram shows a rectangular domain with a central vertical dashed line. The total width is 3.3, divided into segments of 0.9 and 1.2. The height is 1.2.

Technical drawing of a cathode assembly, showing a top view and two cross-sectional views.

Top View Dimensions:

- Overall width: 8.0 ± 0.10
- Overall height: 1.75 ± 0.1
- Distance between hole centers: 4.0 ± 0.1
- Distance between slot centers: 4.0 ± 0.1
- Distance from hole center to slot center: 2.0 ± 0.05
- Hole diameter: $\varnothing 1.50 \pm 0.1$
- Slot width: 3.5 ± 0.05
- Slot depth: 0.30 ± 0.10

Left Cross-Section Dimensions:

- Overall height: 2.26 ± 0.10
- Base width: 0.90 ± 0.1

Right Cross-Section Dimensions:

- Base width: 1.40 ± 0.1

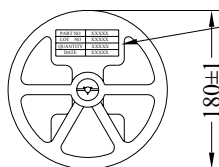
The label "CATHODE" points to the left edge of the assembly.

Figure 1 illustrates the dimensions and layout of the test specimen. The top view shows a circular specimen with a diameter of 180 ± 1 mm. The side view shows the specimen divided into three regions: 'END' (160mm MIN. TRAILER), 'TAPE' (400mm MIN. LEADER), and 'START'. The cross-sectional view shows the tape thickness as 12 ± 0.5 mm and the component diameter as 9 ± 0.5 mm. The overall diameter is 180 ± 1 mm.

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

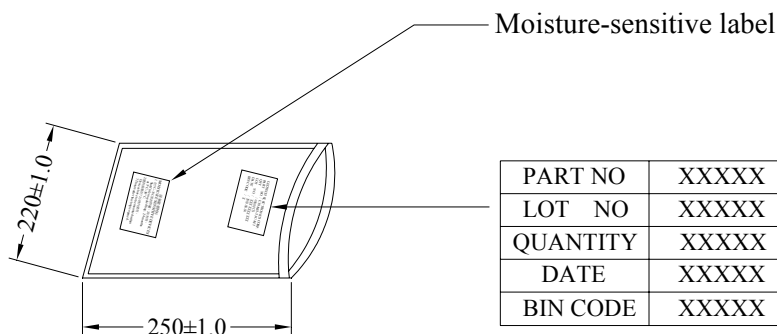
Dimensions for Tape

Reel : 4,000PCS



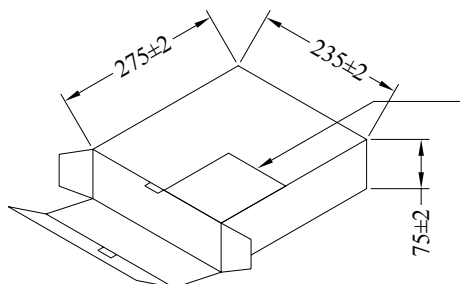
PART NO	XXXXXX
LOT NO	XXXXXX
QUANTITY	XXXXXX
DATE	XXXXXX
BIN CODE	XXXXXX

Bag : 4,000PCS



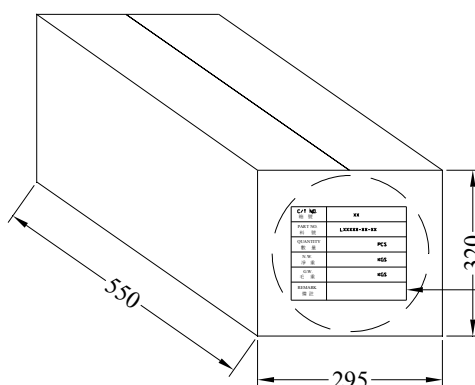
PART NO	XXXXXX
LOT NO	XXXXXX
QUANTITY	XXXXXX
DATE	XXXXXX
BIN CODE	XXXXXX

5 Bags : 20,000PCS



PART NO	XXXXXX
LOT NO	XXXXXX
BIN CODE	XXXXXX
QUANTITY	XXXXXX
DATE	XXXXXX

8 Boxes : 160,000PCS



C/T NO	XX
PART NO	XXXXXX
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.