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

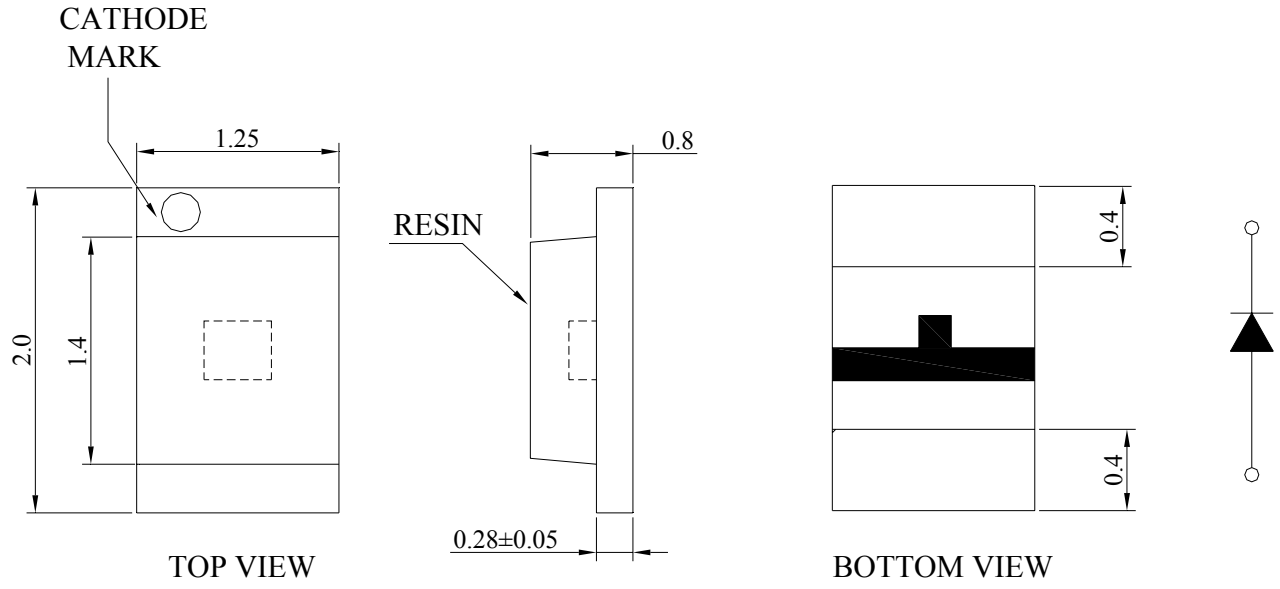
SPECIFICATION

PART NO. : LT8A32-43-T4

0805 SMD CHIP LED

Approved by	Checked by	Prepared by
Tung	*Lian*	*Karen*

Package Dimensions



Notes:

1. All dimensions are in mm.
2. The specifications, characteristics and technical data described in the datasheet are subject to change without notice.
3. Tolerance is ±0.25mm unless otherwise noted.

Description

Part No.	LED Chip		Lens Color
	Material	Emitting Color	
LT8A32-43-T4	GaAsP/GaP	Yellow	White diffused

Absolute Maximum Ratings at Ta=25 ℃

Parameter	Symbol	Rating	Unit
Power Dissipation	PD	78	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	℃
Storage Temperature Range	Tstg.	-40 to +85	℃
Soldering Temperature.	Tsol.	Reflow Soldering:260℃ for 10 sec.	

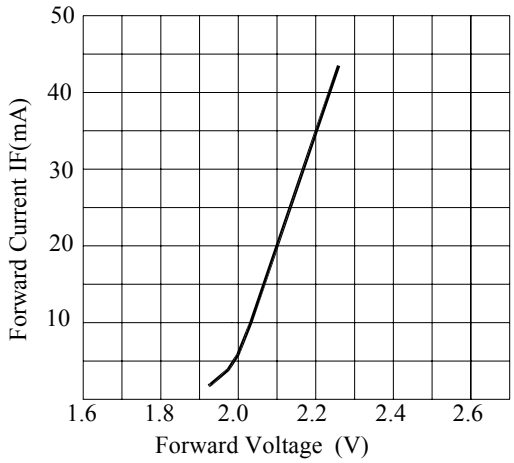
Electrical and Optical Characteristics:

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=20mA		6.5		mcd
Forward Voltage	Vf	If=20mA	1.9		2.6	V
Peak Wavelength	λp	If=20mA		585		nm
Dominant Wavelength	λd	If=20mA		590		nm
Reverse Current	Ir	Vr=5V			100	μA
Viewing Angle	2θ 1/2	If=20mA		140		deg
Spectrum Line Halfwidth	Δλ	If=20mA		35		nm

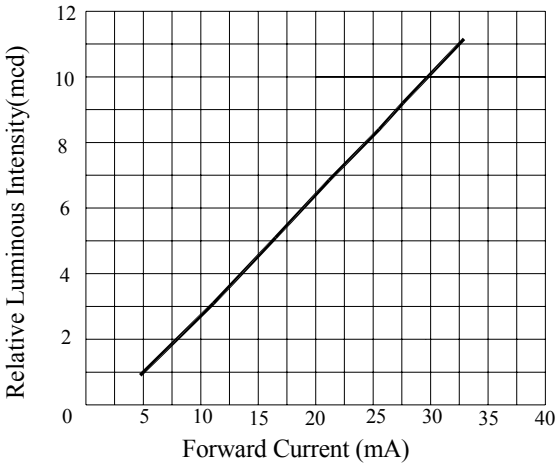
Notes: 1.Tolerance of Luminous Intensity is ±15%
2.Tolerance of Forward Voltage is ±0.1V
3.Tolerance of Dominant Wavelength is ±1nm
4.Customer's special requirements are also welcome.

Typical Electrical/Optical Characteristic Curves

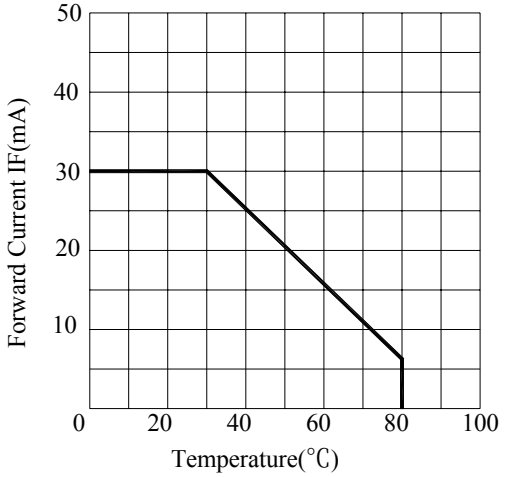
(25℃ Ambient Temperature Unless Otherwise Noted)



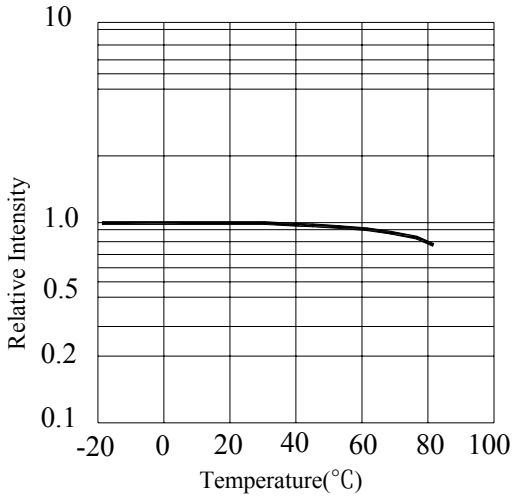
FORWARD CURRENT VS. APPLIED VOLTAGE



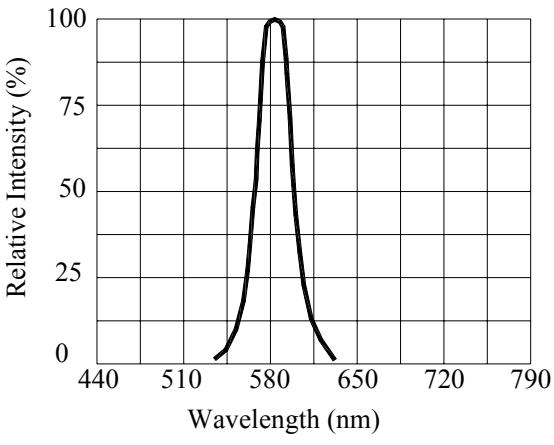
RELATIVE INTENSITY VS. FORWARD CURRENT



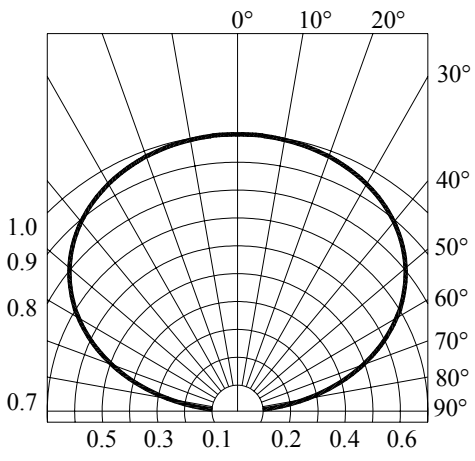
FORWARD CURRENT VS. AMBIENT TEMPERATURE



RELATIVE INTENSITY VS. AMBIENT TEMPERATURE



RELATIVE INTENSITY VS. WAVELENGTH



Radiation Diagram

Precautions in Use:

Storage

Recommend storage environment

Temperature： 5℃～30℃ (41°F～86°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℃ Max for up to 10 seconds, one time only.

Pre-heat is 150℃ 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.

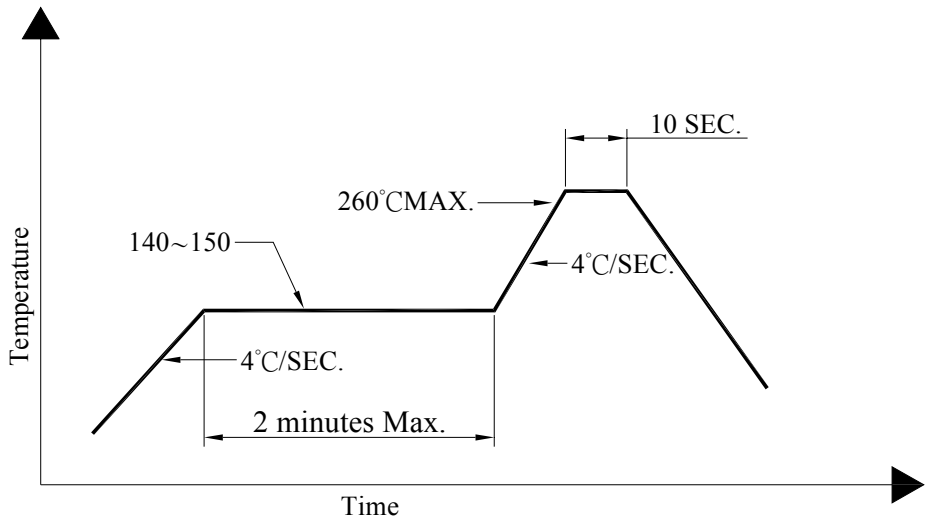
Recommend ultrasonic method 300W Max.

Packaging

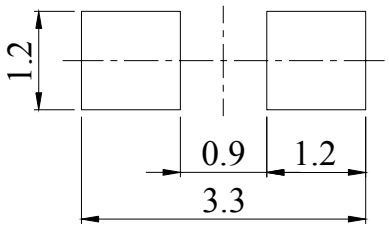
EIA-481A standard package.

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

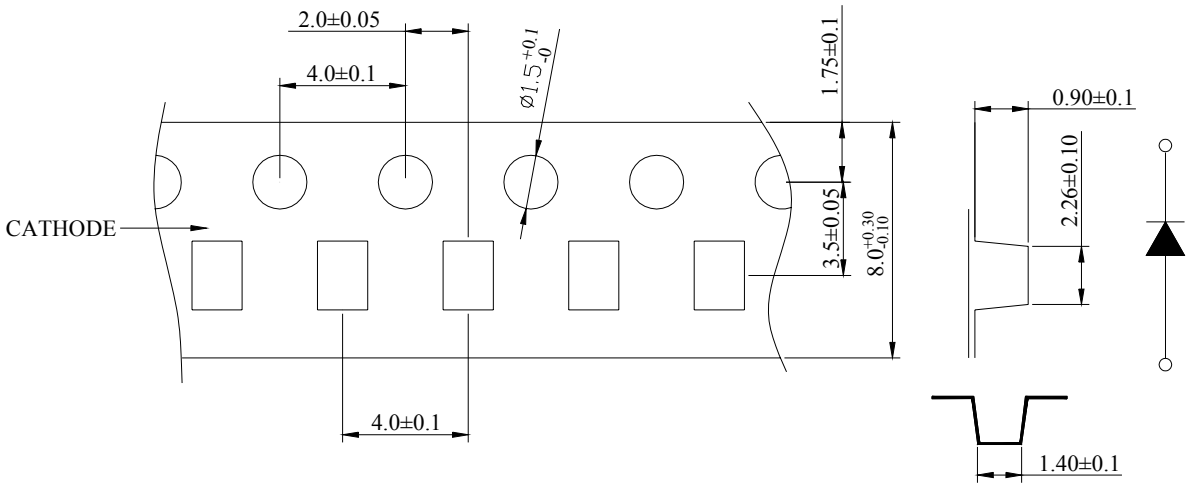
Reflow Temp/Time:



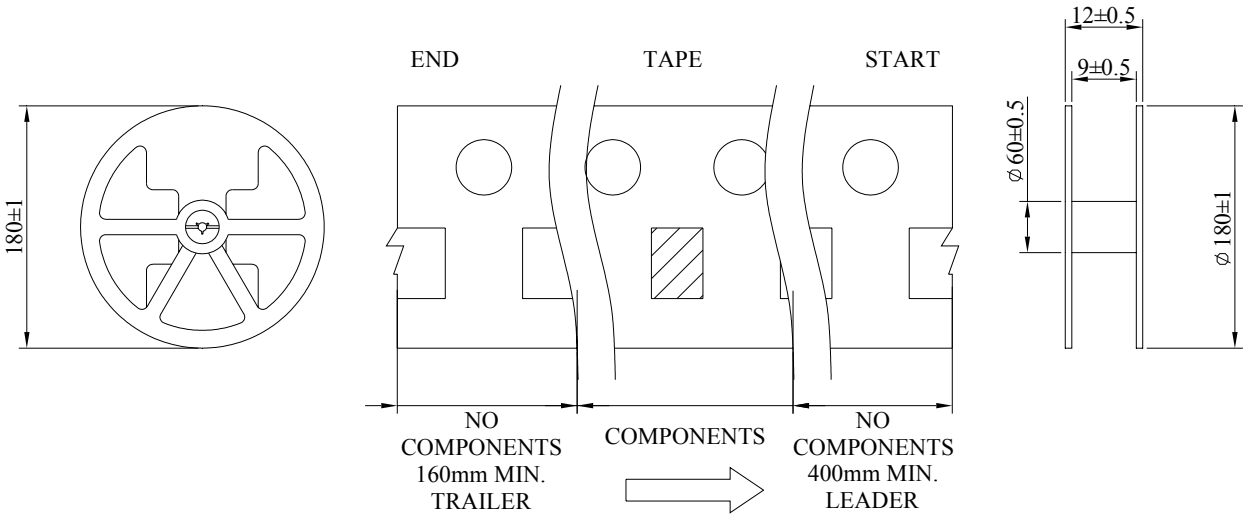
Reflow Soldering Pad Dimensions



Dimensions for Tape



Dimensions for Reel



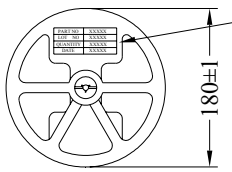
Notes:

1.All dimensions are in mm, tolerance is±2.0mm unless otherwise noted.

2.Specifications are subject to change without notice.

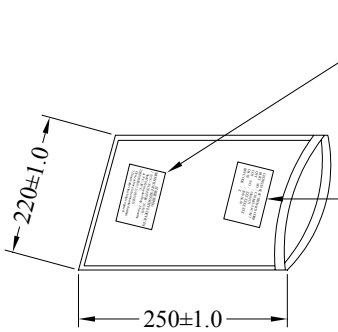
Dimensions for Tape

Reel : 4,000PCS



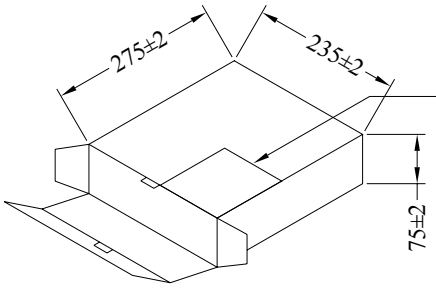
PART NO	XXXXX
LOT NO	XXXXX
QUANTITY	XXXXX
DATE	XXXXX
BIN CODE	XXXXX

Bag : 4,000PCS



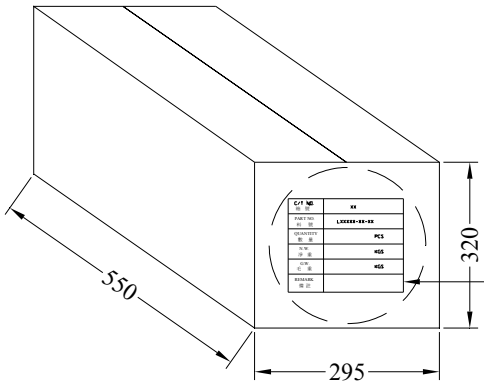
PART NO	XXXXX
LOT NO	XXXXX
QUANTITY	XXXXX
DATE	XXXXX
BIN CODE	XXXXX

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.