



LEDTECH ELECTRONICS CORP.

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[Http://www.ledtech.com.tw](http://www.ledtech.com.tw)

SPECIFICATION

PART NO. : LT5K33-AA-T01

3.2 x 2.8mm SMD TYPE



Approved by

Checked by

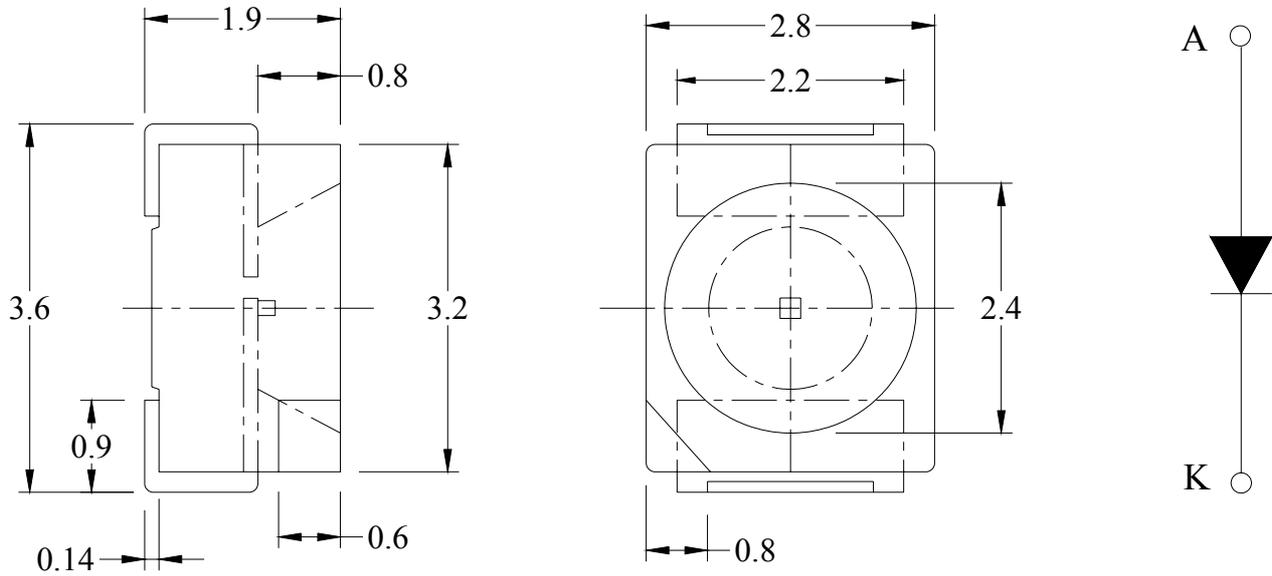
Prepared by

Sam

Lian

Show

Package Dimensions



Notes:

1. ALL DIMENSIONS ARE IN mm.
2. TOLERANCE IS ± 0.25 mm UNLESS OTHERWISE NOTED.

Description

Part No.	LED Chip		Lens Color
	Material	Emitting Color	
LT5K33-AA-T01	GaAsP /GaP	Yellow	Water Clear

Absolute Maximum Ratings at Ta=25°C

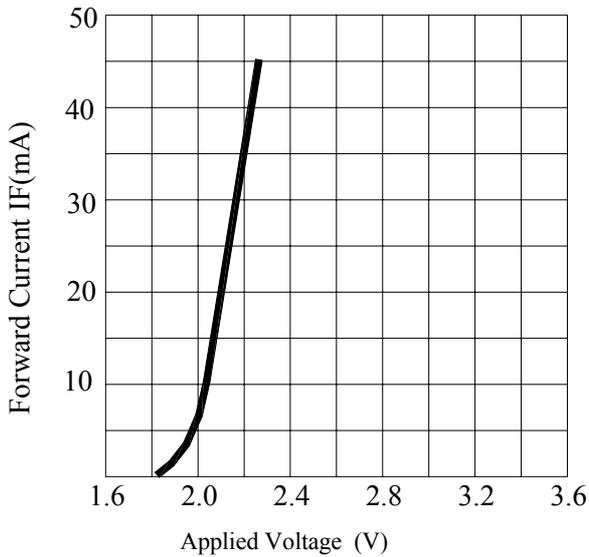
Parameter	Symbol	Rating	Unit
Power Dissipation	P _D	78	mW
Reverse Voltage	V _R	5	V
D.C. Forward Current	I _f	30	mA
Peak Current(1/10Duty Cycle,0.1ms Pulse Width.)	I _f (Peak)	100	mA
Operating Temperature Range	T _{opr.}	-25 to +85	°C
Storage Temperature Range	T _{stg.}	-40 to +100	°C
Lead Soldering Temp. (1.6mm from body) for 5 seconds		260	°C

Electrical and Optical Characteristics:

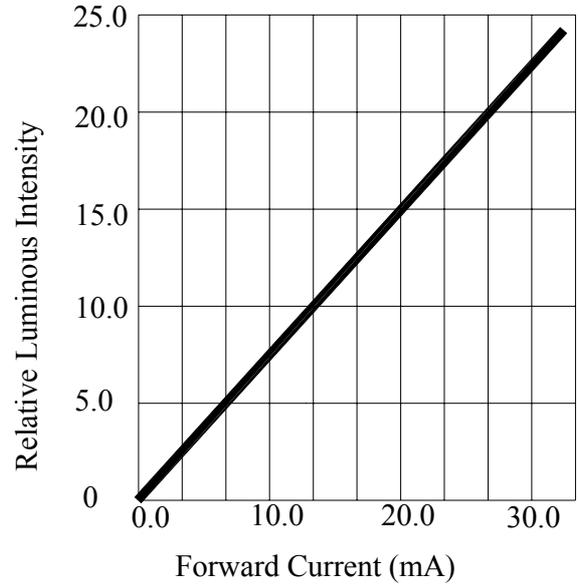
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	I _v	I _f =20mA	9.0	15.0		mcd
Forward Voltage	V _f	I _f =20mA		2.1	2.6	V
Peak Wavelength	λ _P	I _f =20mA		585		nm
Dominant Wavelength	λ _D	I _f =20mA		590		nm
Reverse Current	I _r	V _r =5V			100	μA
Viewing Angle	2θ 1/2	I _f =20mA		120		deg
Spectrum Line Halfwidth	Δλ	I _f =20mA		35		nm

Typical Electrical/Optical Characteristic Curves

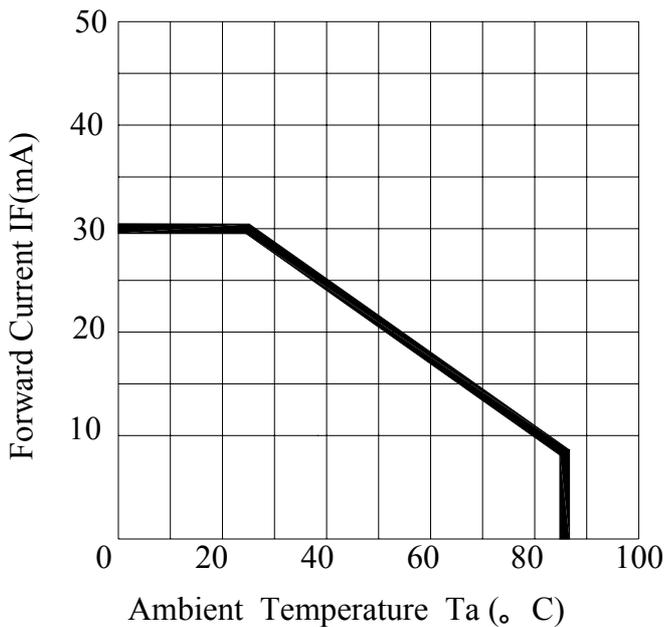
(25°C Ambient Temperature Unless Otherwise Noted)



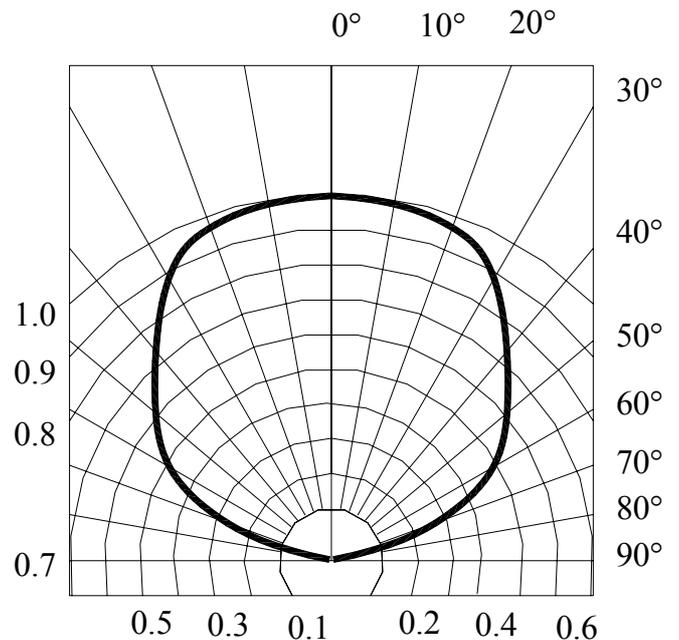
Forward Current VS. Applied Voltage



Forward Current VS. Luminous Intensity



Ambient Temperature vs. Forward Current



Radiation Diagram

PRECAUTION IN USE

Storage

Recommended storage environment

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

Use within 3 days after opening of sealed vapor/ESD barrier bags.

Fold the opened bag firmly and keep in dry environment.

Soldering

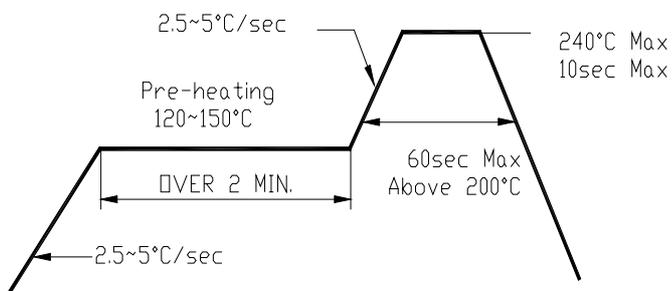
	Reflow Soldering		Hand Soldering	
	Lead Solder	Lead – free Solder	Temperature	350°C Max
Pre-heat	120~150°C	180~200°C	Soldering time	3sec Max (one time only)
Pre-heat time	120sec Max	120sec Max		
Peak temperature	240°C Max	260°C Max		
Soldering time	10sec Max	10sec Max		
Condition	refer to Temperature-profile 1	refer to Temperature-profile 2		

*After reflow soldering rapid cooling should be avoided.

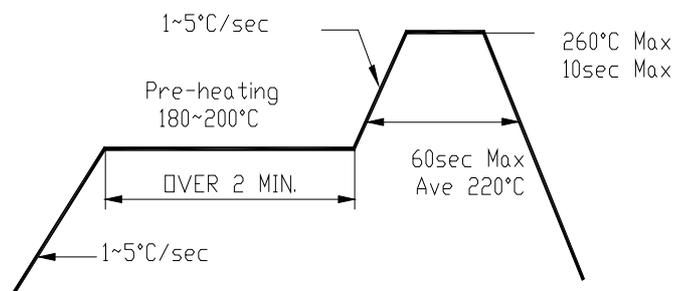
[Temperature-profile (Surface of circuit board)]

Use the conditions shown to the under figure.

< 1 : Lead Solder >

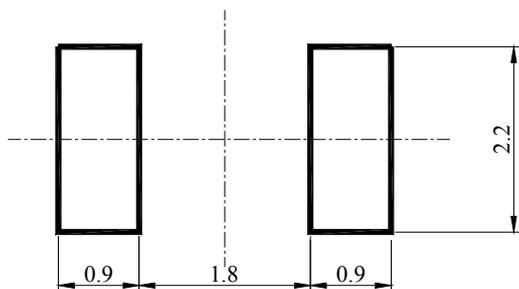


< 2 : Lead-free Solder >



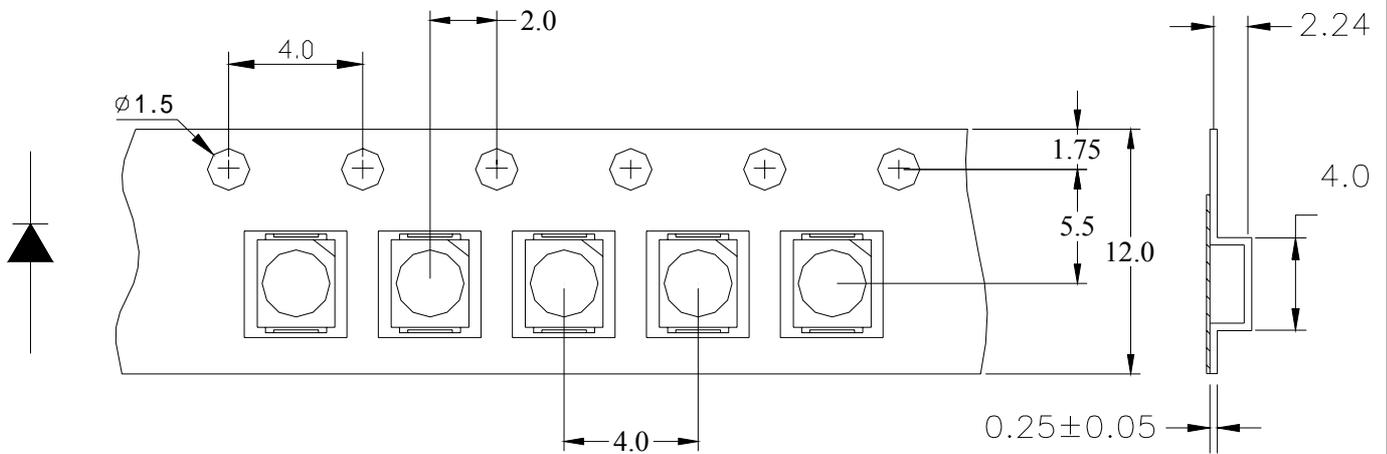
[Recommended soldering pad design]

Use the following conditions shown in the figure.

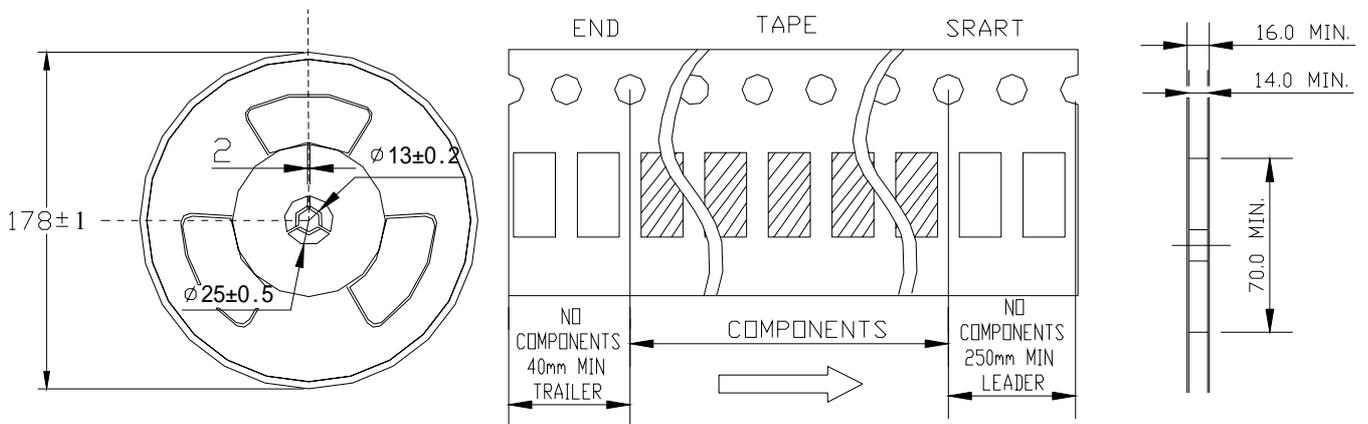


(Unit:mm)

Dimensions for Tape



Dimensions for Reel

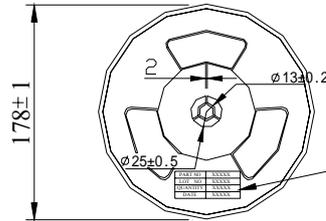


Notes:

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

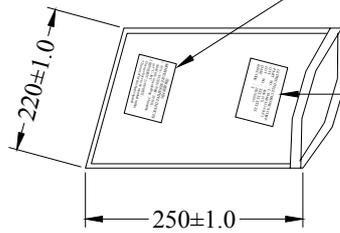
Packing

Reel : 2,000PCS



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

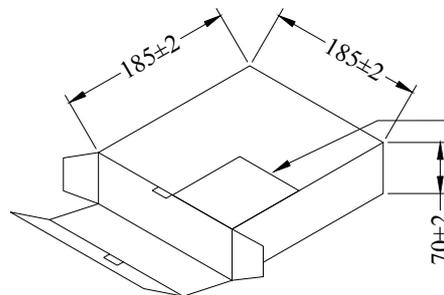
Bag 2,000PCS



溼氣敏感材料
 MOISTURE SENSITIVE DEVICES
 1. 在5°C~30°C密封貯藏，1年有效。
 Shelf life in sealed bag : 12 months
 at 5°C~30°C .
 2. 開封後需在72小時內使用。
 Devices have to be mounted within
 72 hours after this bag is opened .

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

2Bags : 4,000PCS



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

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