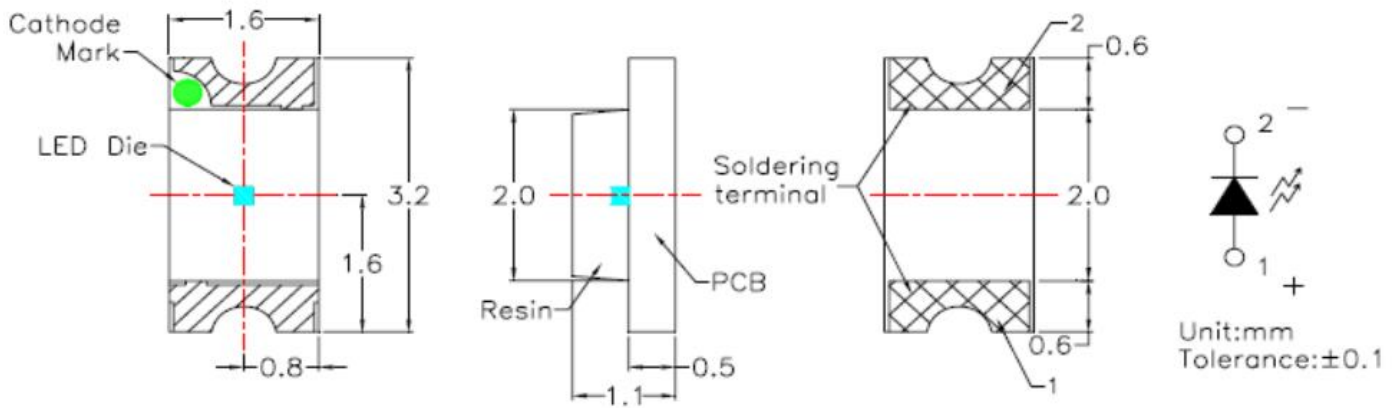


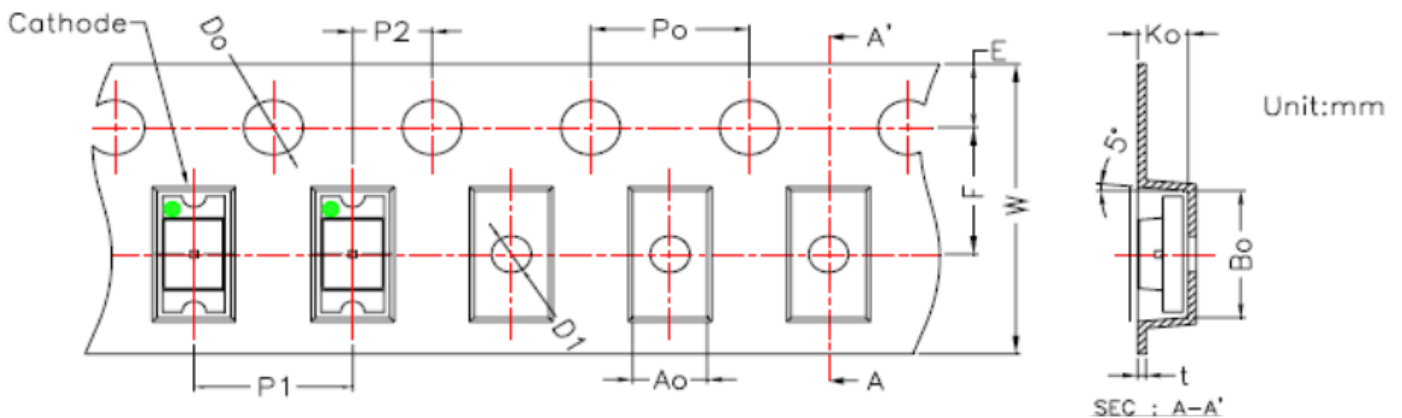
Package Dimensions of Device



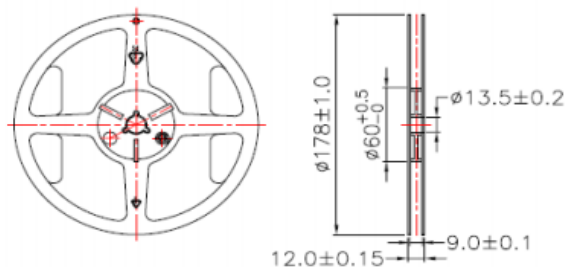
1. Soldering terminal may shift in x, y direction.

Tape Specification: 3.000pcs per reel

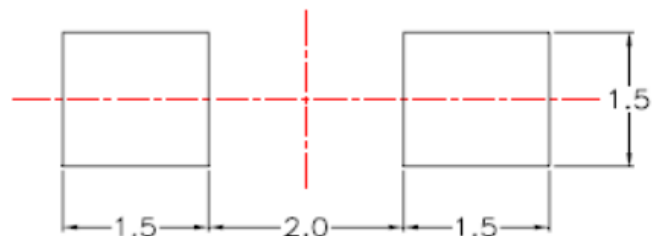
Packing Size													
Item	W	P1	E	F	Do	D1	Po	10Po	P2	Ao	Bo	Ko	t
Spec.	8.0	4.0	1.75	3.50	1.50	1.0	4.00	40.00	2.00	1.88	3.50	1.27	0.23
Tolerance	± 0.20	± 0.10	± 0.10	± 0.05	+ 0.10 - 0.00	+ 0.05	± 0.05	± 0.20	± 0.05	± 0.10	± 0.10	± 0.10	± 0.05



Package Dimensions of Reel



Recommended Soldering Pad Dimensions



Notes:
 All dimensions are in millimeter (inch);
 Tolerance is ±0.1mm (0.004") especially other specified;
 Specifications are subject to change without notice.

Dice Material	Light Color	Lens Color
GaAsP	Yellow	Water Clear

Electrical / Optical Characteristics (Ta=25°C)

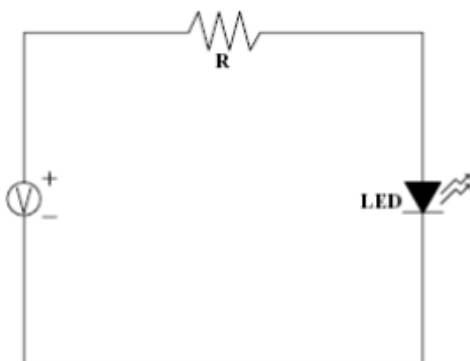
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF=5mA	1.70	1.90	2.00	V
		IF=20mA	-	2.20	2.60	
Luminous Intensity	IV	IF=5mA	0.40	0.70	-	mcd
		IF=20mA	3.60	7.20	-	
Peak Emission Wavelength	λ_P	IF=20mA	-	583	-	nm
Dominant Wavelength	λ_D	IF=5mA	582	586	594	nm
		IF=20mA	585	588	594	
Viewing Angle	2 $\theta_{1/2}$	IF=20mA	-	140	-	deg
Reverse Current	IR	VR=5V	-	-	10	μ A

The measuring tolerance: Luminous intensity $\pm 15\%$; Wavelength(λ_D) ± 2 nm

Absolut Maximum Ratings (Ta=25°C)

Item	Symbol	Maximum	Unit
Power Dissipation	PD	65	mW
Continuous Forward Current	IFmax	25	mA
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	IFP	100	mA
Reverse Voltage	VR	5	V
Derating Linear from 25°C		0.4	mA / °C
Operating Temperature Range	Topr	-40 to +85	°C
Storage Temperature Range	Tstg	-40 to +85	°C

Test Circuit



Hand Soldering Iron

- Temperature at tip of iron: 400°C Max. (35W Max)
- Soldering Times 3 \pm 1sec

Precautions For Use

Overdrive current proof

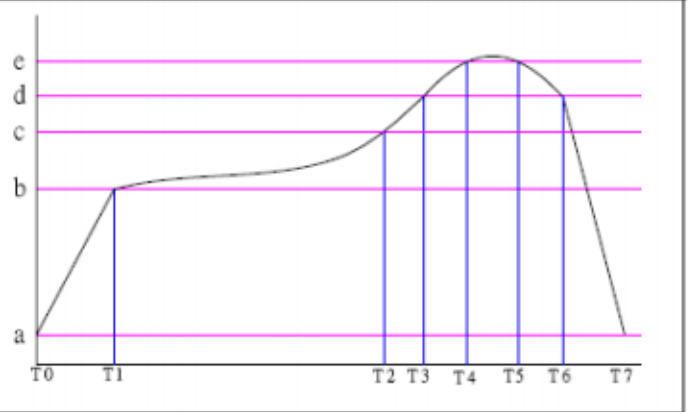
- Customer must apply resistors for protection; otherwise slight voltage shift will cause current change with great deal. (Burn out will happen)

Storage

- The operation of temperature and R.H. are: 5°C ~30°C, 60%R.H> Max.
- Once the packing is opened, the products should be used within a week. Otherwise, they should be kept in a damp-proof box with desiccant. Considering the tape life, we suggest our customers to use our products within 1.5 year (from production date).
- It's recommended to bake before soldering when the package is unsealed more than 72hrs.The condition is: 60°C±5°C for 15hrs.

Reflow Temp. / Time

TEMP (°C)		TIME (sec)	
a	25	T0~T1	5°C/sec max
b	150	T1~T2	90~130
c	200	T2~T3	5°C/sec max
d	230	T3~T6	60~90
e	260	T4~T5	10±1
		T6~T7	-6°C/sec max
MSL level		Level 1	



Flow Temp. / Time

TEMP (°C)		TIME (sec)	
a	25	T1~T2	60±30
b	130±10	T4~T5	10
c	185		
d	265		

