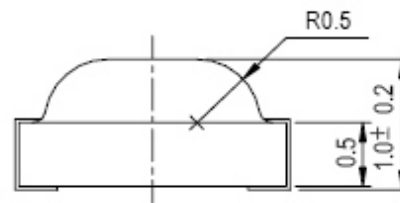
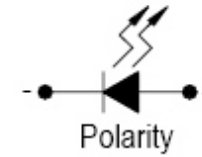
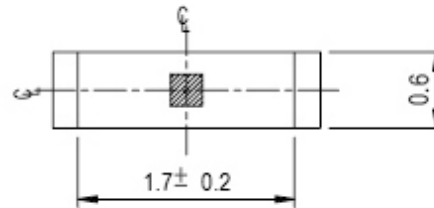
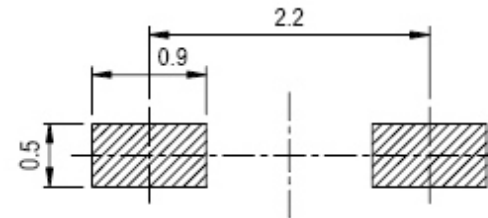
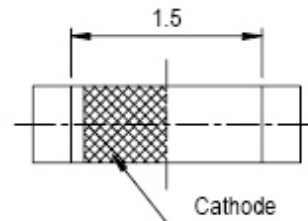


Package Outline Dimensions



For reflow soldering (propose)



Notes: Tolerances Unless Dimension $\pm 0.1\text{mm}$, Angle $\pm 0.5^\circ$,Unit = mm

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DWG NO. **LED-WRD-06Ax**

FILE NO.

UNIT / mm

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TOLERANCES ARE

.X ± 0.2
.XX $\pm$
.XXX $\pm$
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Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	25	mA
Operating Temperature	T _{opr}	-40 ~ +85	℃
Storage Temperature	T _{stg}	-40~ +90	℃
Soldering Temperature	T _{sol}	260 (for 5 second)	℃
Electrostatic Discharge	ESD	2000	V
Power Dissipation	P _d	60	mW
Peak Forward Current (Duty 1/10 @1KHz)	I _F	160	mA

Electro-Optical Characteristics (Ta=25℃)

Parameter	Symbol	*Chip Rank	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I _v	A2	20	48	-----	mcd	I _F =20mA
		A3	46	69	-----		
		A4	63	94			
		A5	76	117			
		A6	92	142	-----		
Viewing Angle	2 θ 1/2	-----	-----	130	-----	deg	I _F =20mA
Peak Wavelength	λ _p	-----	-----	632	-----	nm	I _F =20mA
Dominant Wavelength	λ _d	-----	-----	624	-----	nm	I _F =20mA
Spectrum Radiation Bandwidth	△ λ	-----	-----	20	-----	nm	I _F =20mA
Forward Voltage	V _F	-----	-----	2.0	2.4	V	I _F =20mA
Reverse Current	I _R	-----	-----	-----	10	μ A	V _R =5V



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PART NO. **LED-WRD-06Ax**

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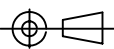
UNIT / mm

SCALE 1 : 1

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TOLERANCES ARE

.X ± 0.2
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AWG

DESCRIP TION:

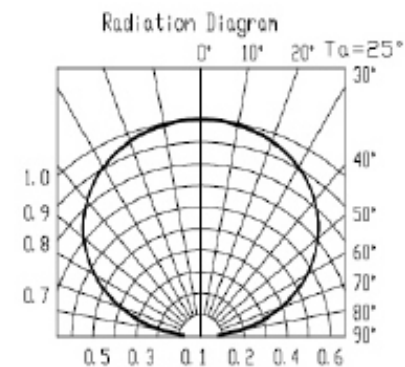
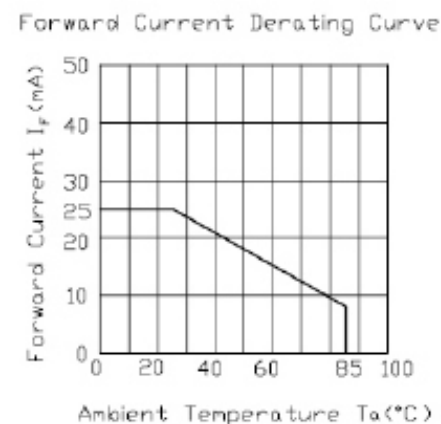
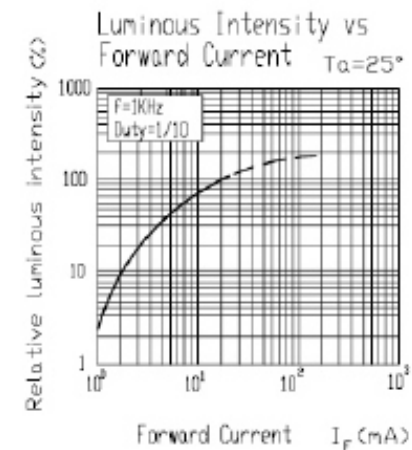
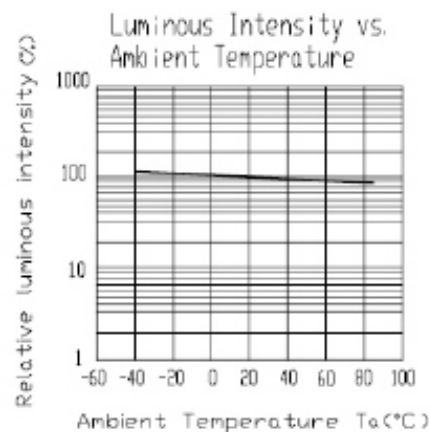
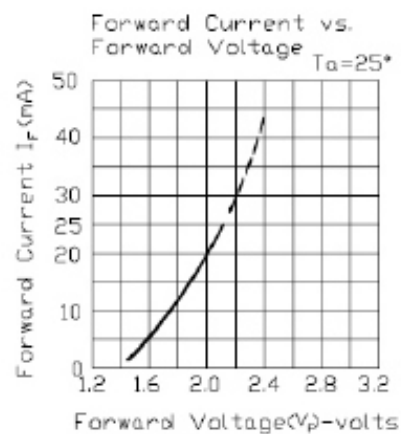
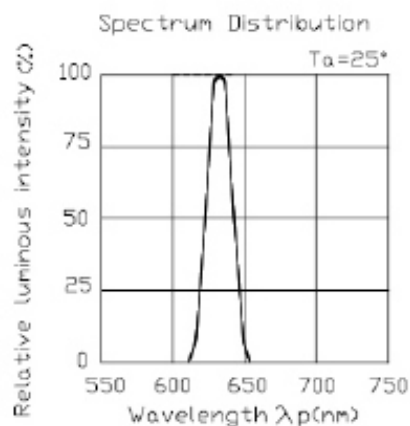
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Typical Electro-Optical Characteristics



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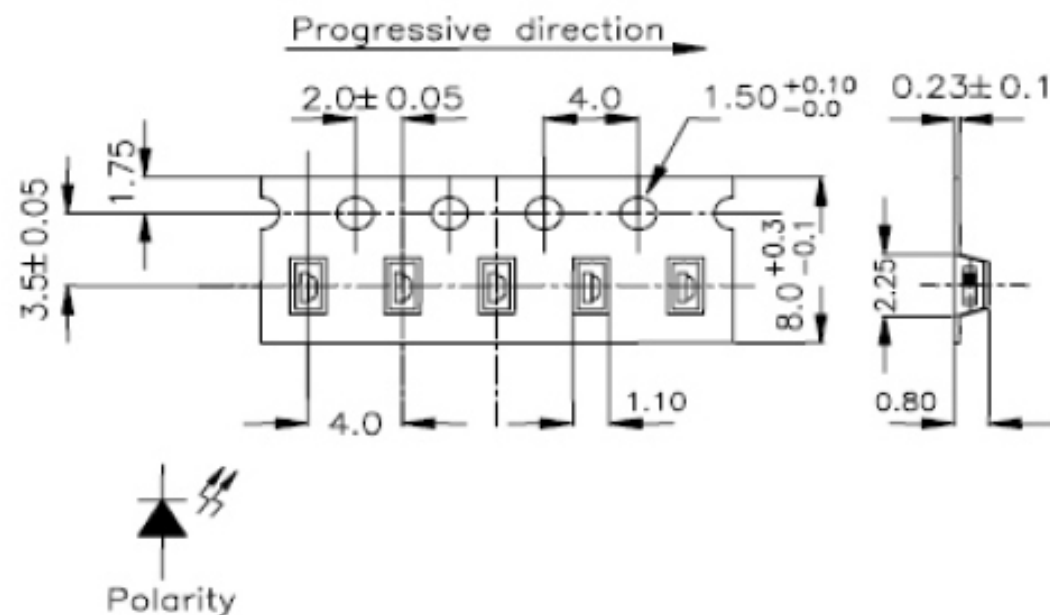
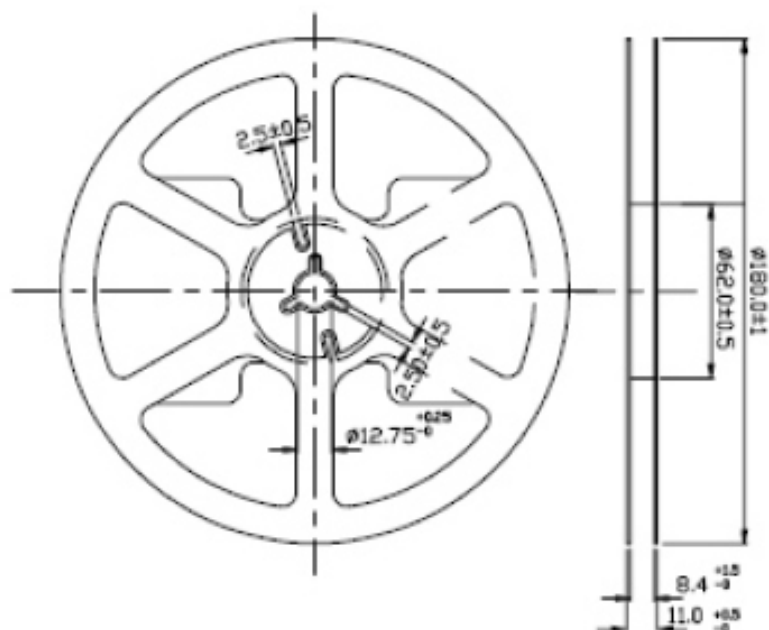
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Reel & Carrier Tape Dimensions

Loaded quantity per reel 3000 PCS/reel



Notes: Tolerances Unless Dimension $\pm 0.1\text{mm}$, Angle $\pm 0.5^\circ$, Unit = mm

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TOLERANCES ARE

DESCRIPTION:

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AWG

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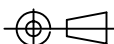
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UNIT / mm

SCALE 1:1

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Reliability Test Items And Conditions

The reliability of products shall be satisfied with items listed below.

Confidence level : 90 %

LTPD : 10 %

No.	Items	Test Condition	Test Hours/Cycles	Sample Size	Ac/Rc
1	Reflow	Temp. : 240°C ± 5°C Min. 5 sec.	6 min.	22 Pcs.	0/1
2	Temperature Cycle	H : +85°C 30min. § 5 min. L : -55°C 30min.	50 Cycles	22 Pcs.	0/1
3	Thermal Shock	H : +100°C 5min. § 10 sec. L : -10°C 5min.	50 Cycles	22 Pcs.	0/1
4	High Temperature Storage	Temp. : 100°C	1000 Hrs.	22 Pcs.	0/1
5	Low Temperature Storage	Temp. : -55°C	1000 Hrs.	22 Pcs.	0/1
6	DC Operating Life	If = 20 mA	1000 Hrs.	22 Pcs.	0/1
7	High Temperature / High Humidity	85°C/R.H85%	1000 Hrs.	22 Pcs.	0/1



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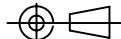
UNIT / mm

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TOLERANCES ARE

.X ± 0.2
.XX ±
.XXX ±
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Precautions For Use

1. Over-current-proof

Customer must apply resistors for protection , otherwise slight voltage shift will cause big current change (Burn out will happen).

2. Storage time

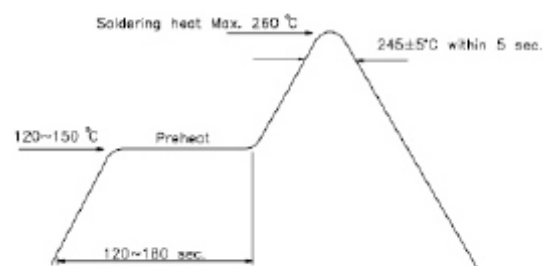
2.1 The operation of Temperature and RH are : $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$, RH60%.

2.2 Once the package is opened, the products should be used within a week. Otherwise, they should be kept in a damp proof box with descanting agent. Considering the tape life , we suggest our customers to use our products within a year(from production date).

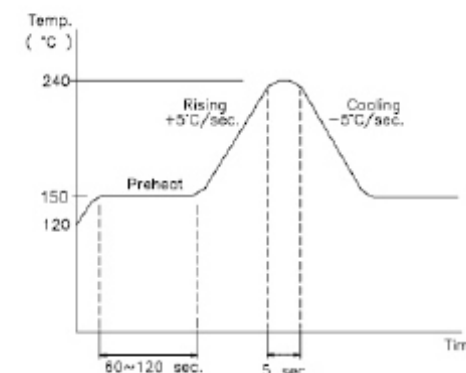
2.3 If opened more than one week in an atmosphere $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$, RH 60%, they should be treated at $60^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 15hrs.

2.4 When you discover that the desiccant in the package has a pink color (Normal = blue) , you should treat them in the same conditions as 2.3.

Soldering heat



Reflow Temp / Time



Soldering Iron

Basic spec is ≤ 5 sec when 260°C . If temperature is higher, time should be shorter ($+10^{\circ}\text{C} \rightarrow -1$ sec). Power dissipation of Iron should be smaller than 15 W , and temperature should be controllable. Surface temperature of the device should be under 230°C .

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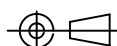
UNIT / mm

SCALE 1:1

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