



MODEL NO: 67-21UYC/S400-A5/TR8

Device Number : DSE-671-110 REV. 1.0

TOP LEDs

ECN : \_\_\_\_\_ Page: 1/7

■ Features :

- P-LCC-2package.
- White package.
- Optical indicator.
- Colorless clear window.
- Ideal for backlight and light pipe applications.
- Inter reflector.
- Low (2mA) current operation.
- Wide viewing angle.
- Computable with automatic placement equipment.
- Suitable for vapor-phase reflow, Infrared reflow and wave solder processes.
- Available on tape and reel (8mm Tape).

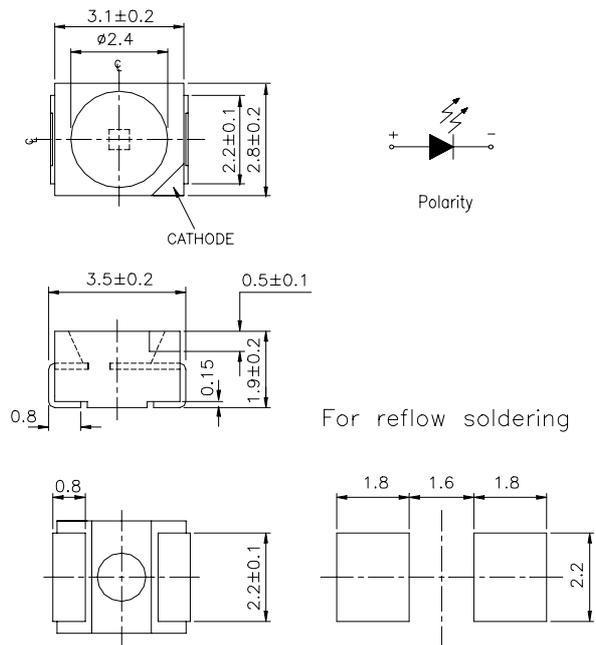
■ Descriptions :

- The 67-21 series is available in soft-orange, green, blue and yellow, Due to the package design, the LED has wide viewing angle and optimized light coupling by inter reflector, this feature makes the SMT TOP LED ideal for light pipe applications, The low current requirement makes this device ideal for portable equipment or any other applications where power is at a premium.

■ Applications :

- Automotive: backlight in dashboards and switches
- Telecommunication: indicator and backlight in telephone and fax.
- Indicator and backlight for audio and video equipment.
- Indicator and backlight in office and family equipment.
- Flat backlight for LCD's, switches and symbols.
- Light pipe applications.
- General use.

■ Package Dimensions :



■ Notes:

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

PART NO	Chip		Lens Color
	Material	Emitted Color	
67-21UYC/S400-A5/TR8	AlGaInP	Super Yellow	Water Clear

Office: NO. 25, Lane 76, Sec.3, Chung Yang Rd., Tucheng 236, Taipei, Taiwan, R.O.C.

TEL: 886-2-2267-2000, 2267-9936

FAX: 886-2-2267-6244, 2267-6189, 2267-6306

<http://www.everlight.com>



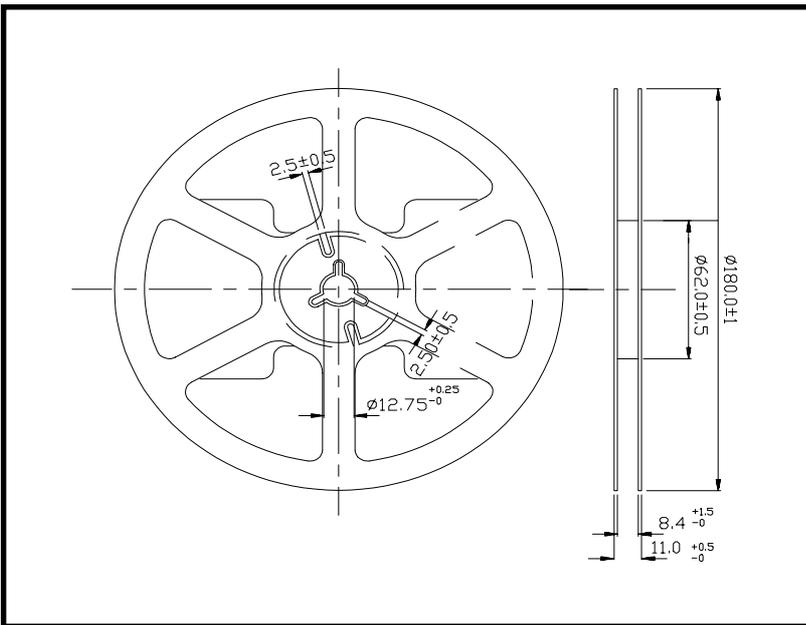
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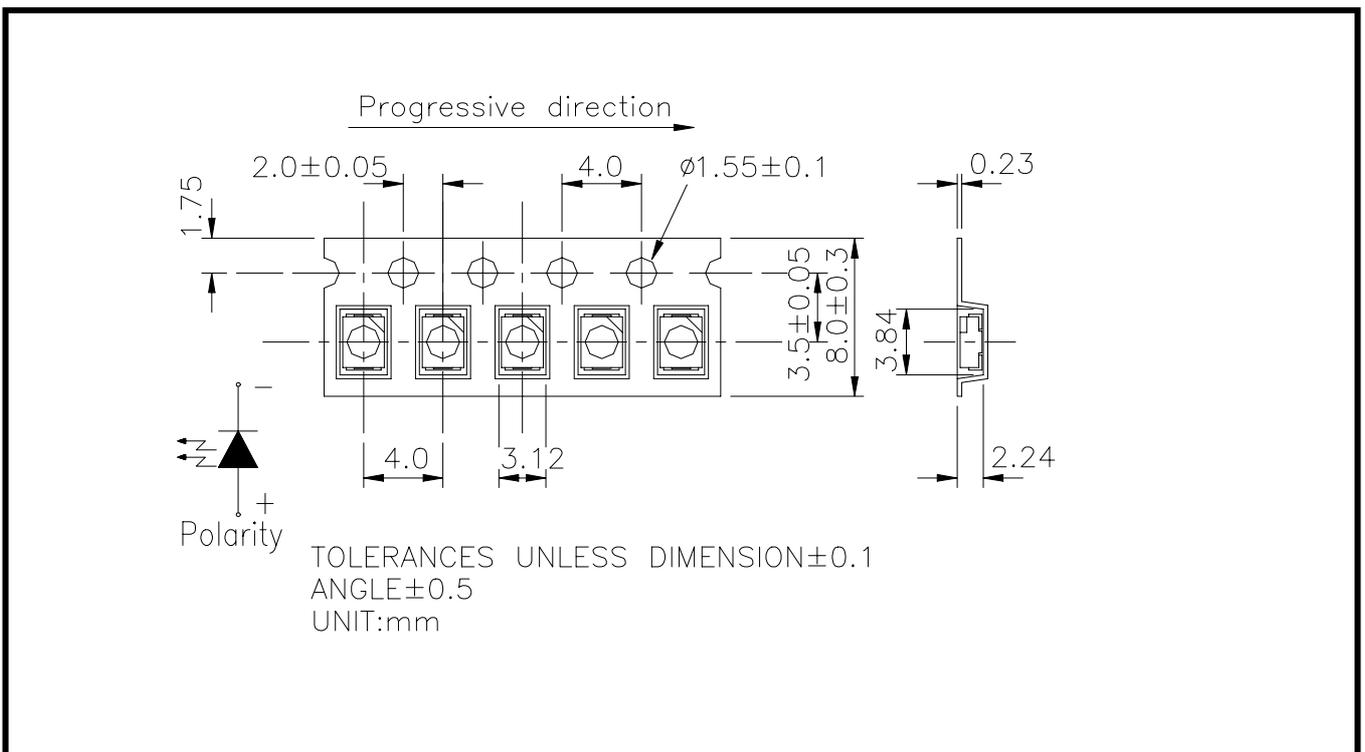
TOP LEDs

ECN : ..... Page: 2/7

■ Package Dimensions :



■ Loaded quantity per reel 2000 PCS/reel :





**TOP LEDs**

■ **Absolute Maximum Ratings at Ta = 25°C**

Parameter	Symbol	Rating	Unit
Reverse Voltage	Vr	5	V
Forward Current	If	50	mA
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +90	°C
Soldering Temperature	Tsol	260 (for 5 second)	°C
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	120	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	If(Peak)	200	mA

■ **Electronic Optical Characteristics :**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	-----	10	-----	mcd	If=2mA
Luminous Intensity	Iv	119	175	-----	mcd	If=20mA
Viewing Angle	2θ 1/2	-----	120	-----	deg	If=20mA
Peak Wavelength	λ p	-----	591	-----	nm	If=20mA
Dominant Wavelength	λ d	-----	589	-----	nm	If=20mA
Spectrum Radiation Bandwidth	Δ λ	-----	15	-----	nm	If=20mA
Forward Voltage	Vf	-----	2.0	2.4	V	If=20mA
Reverse Current	Ir	-----	-----	10	μ A	Vr=5V





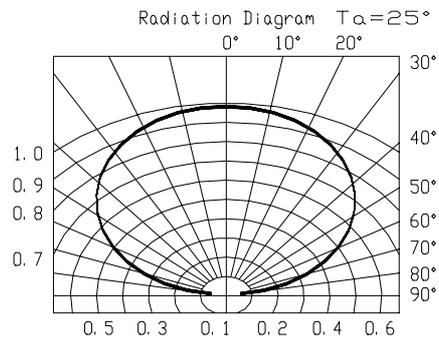
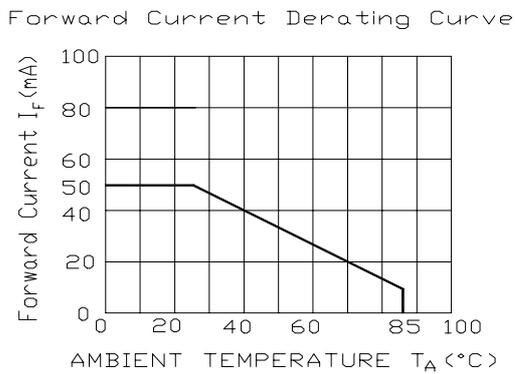
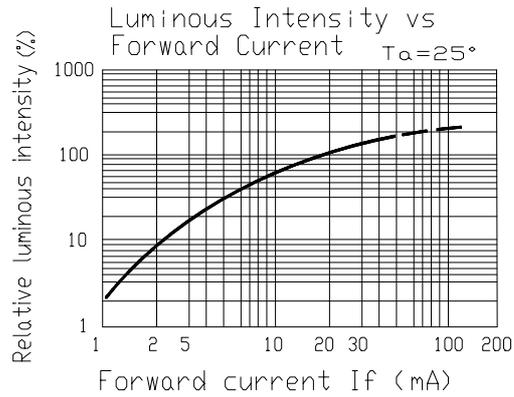
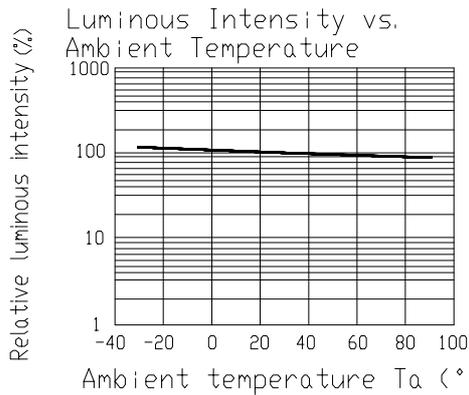
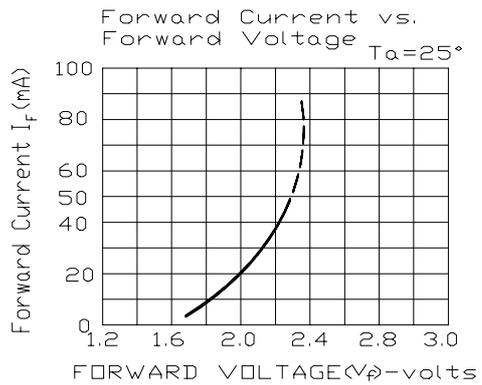
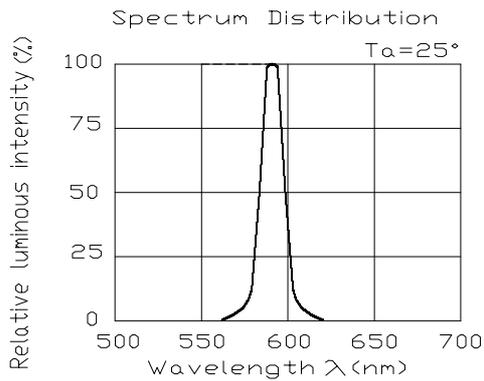
MODEL NO: 67-21UYC/S400-A5/TR8

Device Number : DSE-671-110 REV. 1.0

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ECN : \_\_\_\_\_ Page: 5/7

**Typical Electro-Optical Characteristic Curves**





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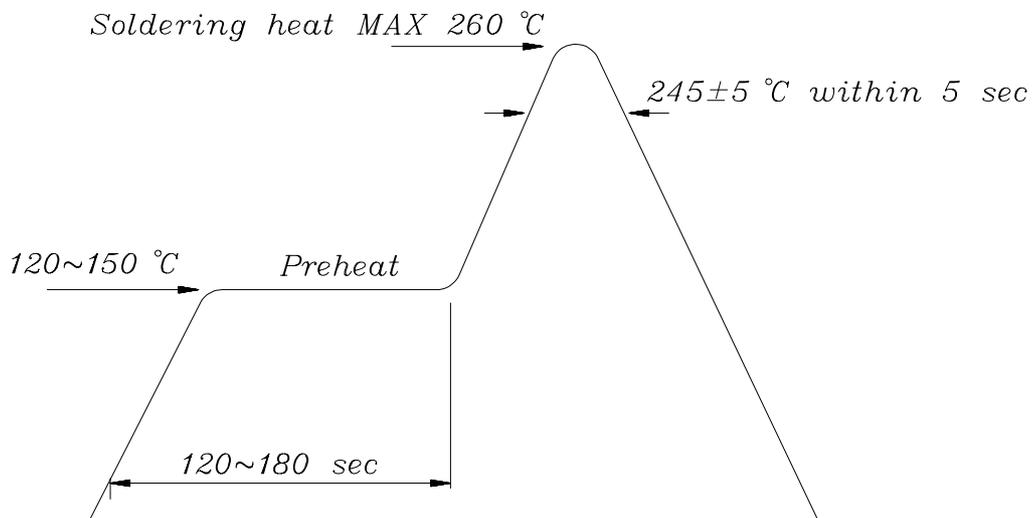
Device Number : DSE-671-110 REV. 1.0

**TOP LEDs**

ECN : ..... Page: 6/7

■ **Soldering heat reliability ( DIP )**

Please refer to the following figure :

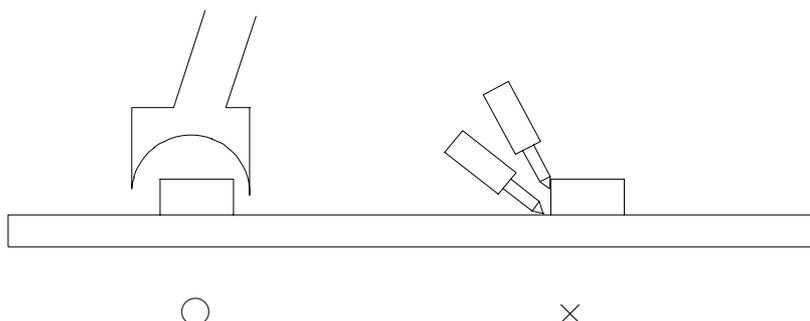


■ **Soldering Iron**

Basic spec is  $\leq 5$  sec when 260°C .If temperature is higher, time should be shorter (+10°C  $\rightarrow$  -1sec). 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 .

■ **Rework**

1. Customer must finish rework within 5 sec under 260°C .
2. The head of iron can not touch copper foil.
3. Twin-head type is preferred.





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ECN : ..... Page: 7/7

■ Reflow Temp. / Time :

