



MODEL NO: 23-21UBC/C470/TR8

Device Number : DSE-231-008 REV. 1.0

Reverse Package Chip LED

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Features :

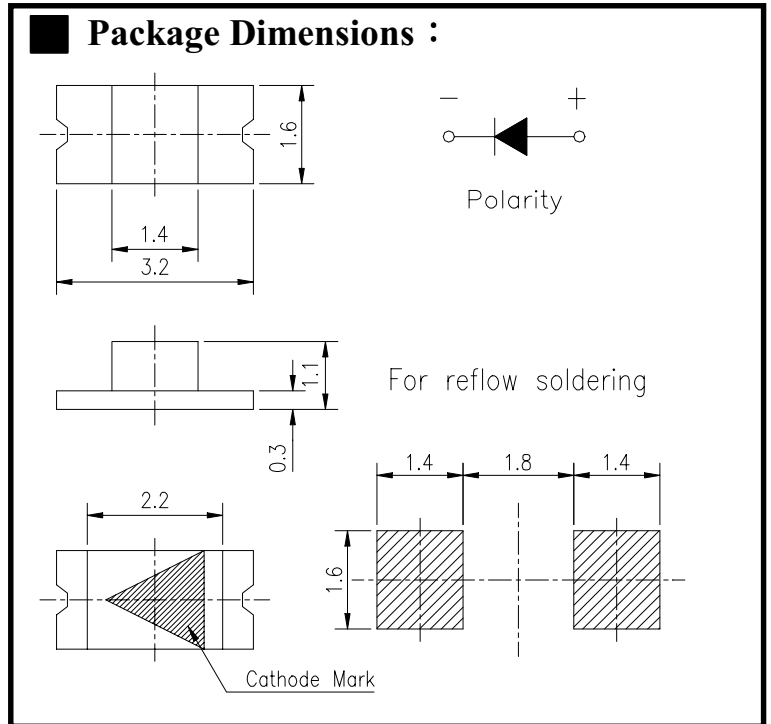
- Package in 8mm tape on 7" diameter reel.
- Compatible with automatic placement equipment.
- Compatible with infrared and vapor phase reflow solder process.
- Mono-color type.

Description :

- The 23-21 SMD Taping is much smaller than leaded components, thus enable smaller board size, higher packing density, reduced storage space and finally smaller equipment to be obtained.
- Besides, lightweight makes them ideal for miniature application, etc.

Applications :

- Automotive: backlighting in dashboard and switch.
- Telecommunication: indicator and backlighting in telephone and fax.
- Flat backlight for LCD, switch and symbol.
- General use.



Notes :

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

PART NO	CHIP		Lens Color
	Material	Emitted Color	
23-21UBC/C470/TR8	GaN/SiC	Blue	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>



EVERLIGHT ELECTRONICS CO., LTD.

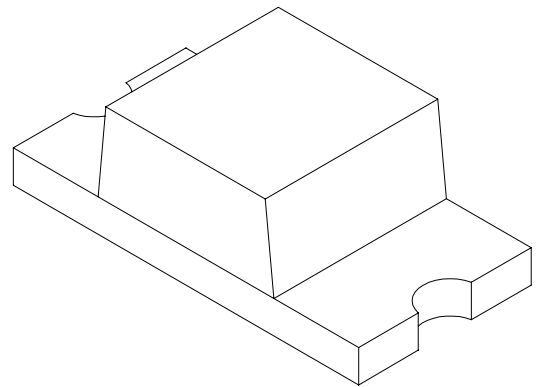
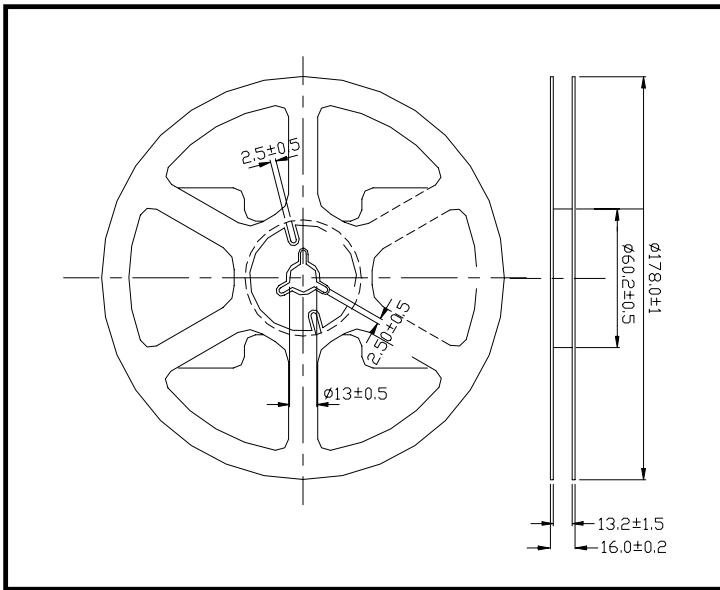
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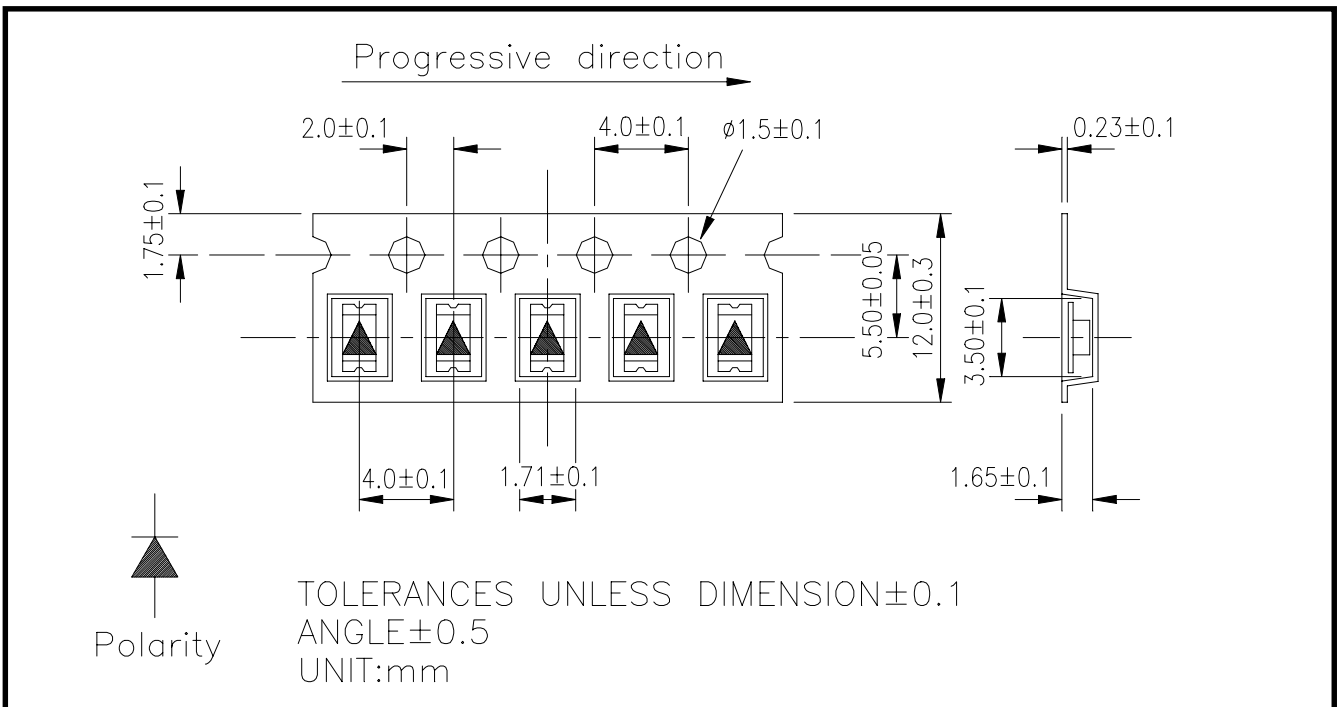
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■ **Package Dimensions :**



■ **Loaded quantity per reel 2000 pcs/reel :**





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

Parameter	Symbol	Rating	Unit
Reverse Voltage	Vr	5	V
Forward Current	If	30	mA
Operating Temperature	Topr	-20 ~ +80	°C
Storage Temperature	Tstg	-30 ~ +90	°C
Soldering Temperature	Tsol	260 (for 5 second)	°C
Electrostatic Discharge	ESD	1000	V
Power Dissipation	Pd	120	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	If(Peak)	100	mA

■ **Electronic Optical Characteristics :**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous intensity	Iv	-----	1	-----	mcd	If=2mA
		19	25	-----	mcd	If=20mA
Viewing Angle	2θ 1/2	-----	130	-----	deg	If=20mA
Peak Wavelength	λ p	-----	468	-----	nm	If=20mA
Dominant Wavelength	λ d	-----	470	-----	nm	If=20mA
Spectrum Radiation Bandwidth	Δ λ	-----	26	-----	nm	If=20mA
Forward Voltage	Vf	-----	3.5	4.0	V	If=20mA
Reverse Current	Ir	-----	-----	50	μ A	Vr=5V



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Typical Electro-Optical Characteristic Curves :

