



YETDA INDUSTRY LTD.

Technical Data Sheet

MODEL NO : S170ANWW4

0805Package 2.0x1.25x1.1mm Chip LEDs

Features :

- Lens Molding
- Compatible with automatic placement equipment
- Compatible with reflow solder process

Applications :

- Indicators
- Automotive : backlighting in dashboard and switch
- Backlight for LCD

Dice material	Emitted color	Lens Color
InGaN	White	Yellow

Electrical/Optical Characteristics(Ta=25°C)

Parameter	Test Condition	Symbol	Value			Unit
			Min	Typ	Max	
CIE Coordinates	If=30mA	X		0.43		
		Y		0.45		
Forward voltage	If=30mA	V _F	2.8	3.2	3.7	V
Luminous intensity	If=30mA	I _v	200	355	630	mcd
Viewing angle at 50% I _v	If=30mA	2θ 1/2		140		Deg
Reverse current	V _R =5V	I _R			10	μA

Absolute Maximum Ratings(Ta=25°C)

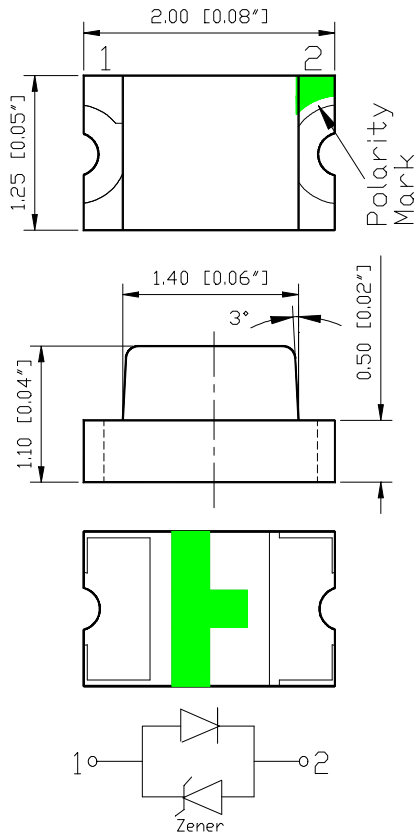
Parameter	Symbol	Value	Unit
Power dissipation	P _d	111	mW
Forward current	I _F	25	mA
Reverse voltage	V _R	0.7	V
Operating temperature range	T _{op}	-40 ~+80	°C
Storage temperature range	T _{stg}	-40 ~+85	°C
Peak pulsing current (1/8 duty f=1kHz)	I _{fp}	125	mA

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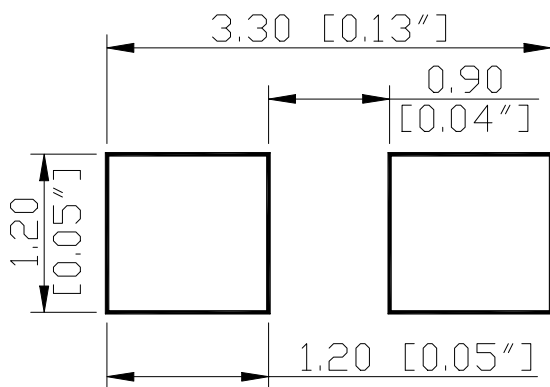


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PACKAGING DIMENSIONS



RECOMMEND PAD LAYOUT



NOTES:

1. All dimensions are in millimeters (inches);
2. Tolerances are $\pm 0.1\text{mm}$ (0.004inch) unless otherwise noted.



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Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

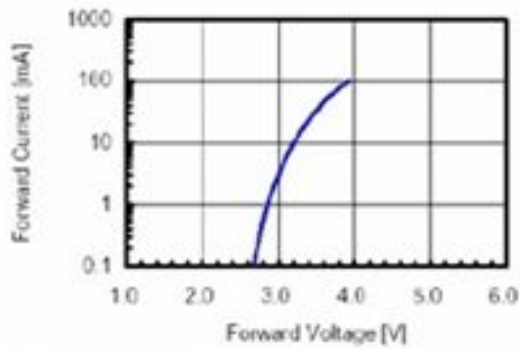


Fig 2. Relative Intensity vs. Forward Current

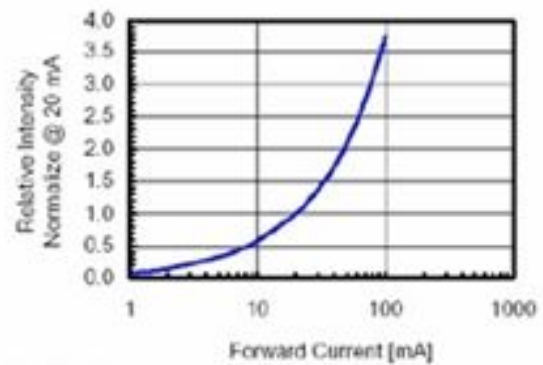


Fig 3. Forward Voltage vs. Temperature

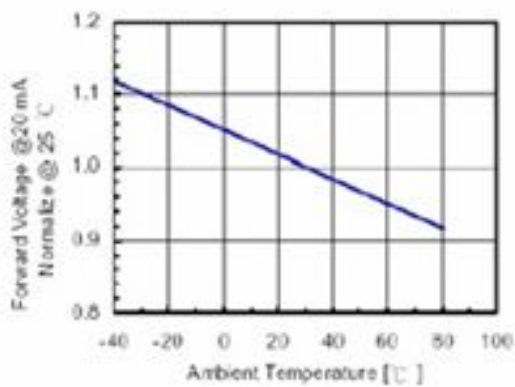
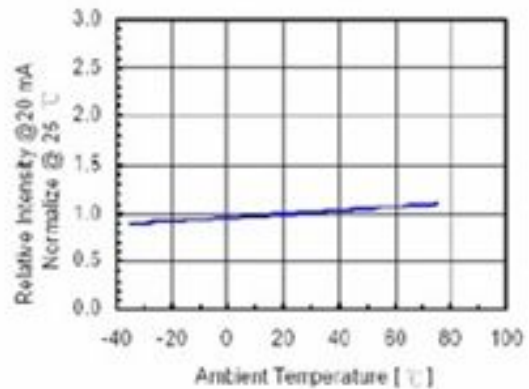


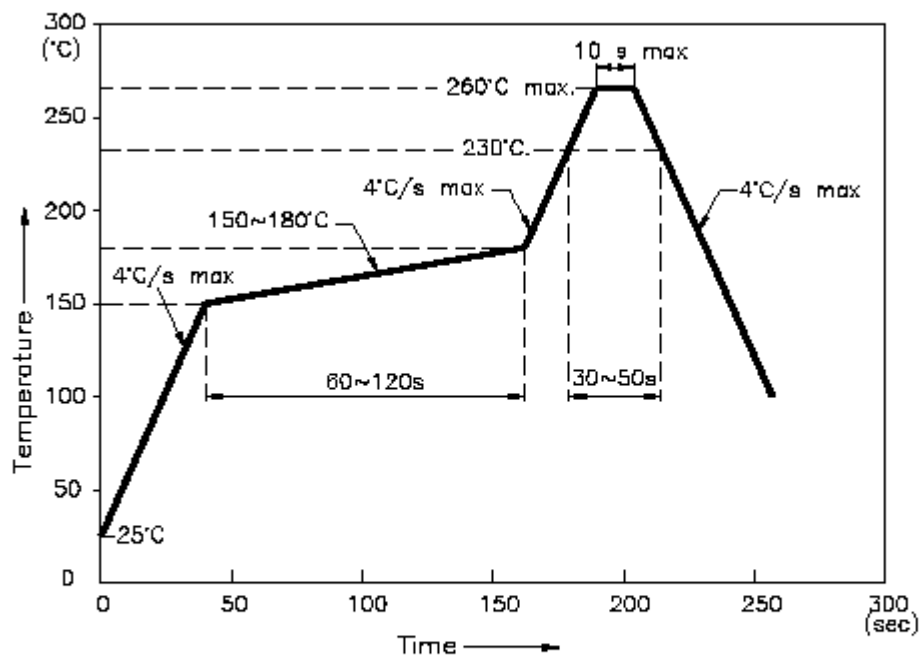
Fig 4. Relative Intensity vs. Temperature





Soldering Profile

Reflow Soldering Profile For Lead-free SMT Process.



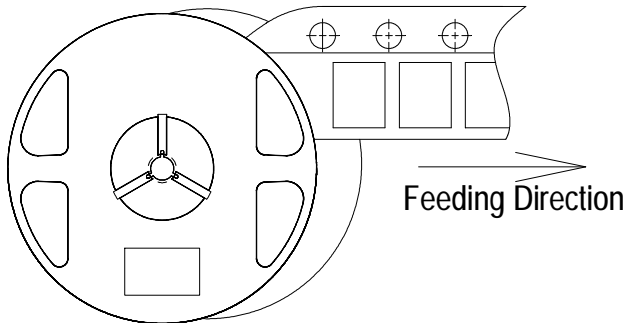
NOTES:

1. We recommend the reflow temperature $245^{\circ}\text{C}(\pm 5^{\circ}\text{C})$. The maximum soldering temperature should be limited to 260°C .
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.

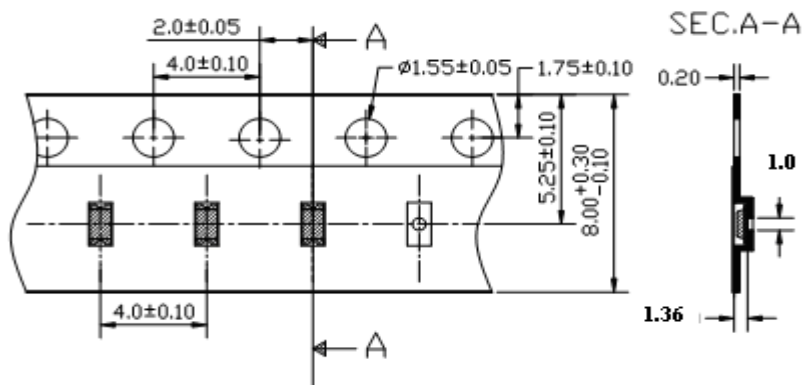


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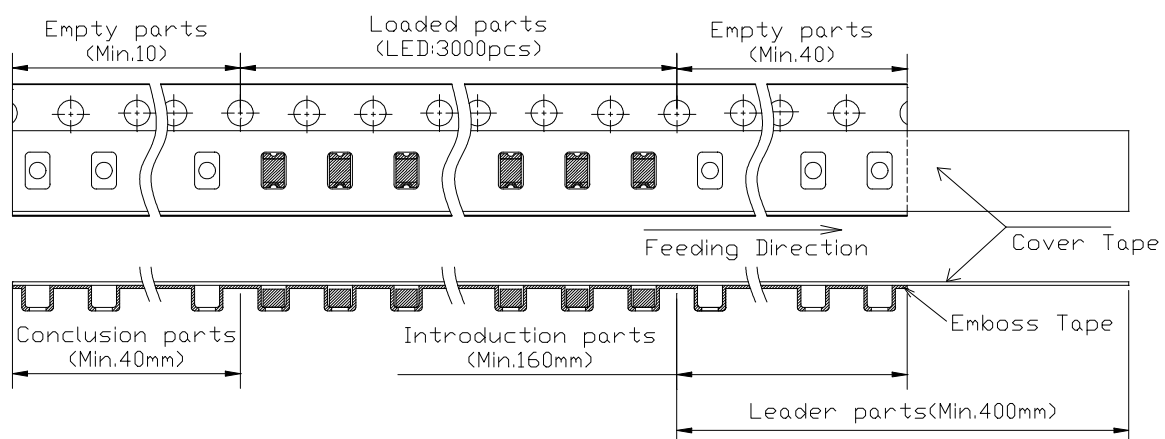
■ Feeding Direction



■ Dimensions of Tape (Unit: mm)



■ Arrangement of Tape



Notes:

1. Empty component pockets are sealed with top cover tape;
2. The maximum number of missing lamps is two;
3. The cathode is oriented towards the tape sprocket hole.
4. 3,000 pcs/Reel