



# YETDA INDUSTRY LTD.

## Technical Data Sheet

**MODEL NO : Q5050ANI4-M**

**5060 Package 5.0 X 5.0mm TOP LEDs**

**Features :**

- Compatible with automatic placement equipment
- Compatible with reflow solder process
- Using InGaN blue chip

**Applications :**

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

Dice material	Emitted color	Lens Color
AlGaInP	Red	Water Clear

**Electrical/Optical Characteristics(Ta=25°C)**

Parameter	Test Condition	Symbol	Value			Unit
			Min	Typ	Max	
Spectral half bandwidth	If=20mA	$\Delta \lambda$				nm
Dominant wavelength	If=60Ma/three chip	$\lambda_{dom}$	620		630	nm
Forward voltage	If=20mA/per chip	Vf	1.8		2.4	V
Luminous intensity	If=60Ma/three chip	Iv	1400		2900	mcd
Viewing angle at 50% Iv	If=60Ma/three chip	$2\theta_{1/2}$		120		Deg
Reverse current	Vr=5V	Ir			10	$\mu$ A

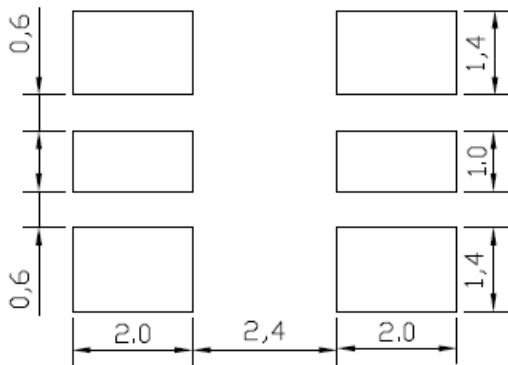
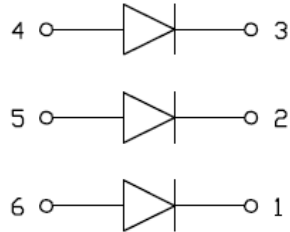
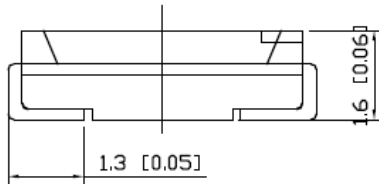
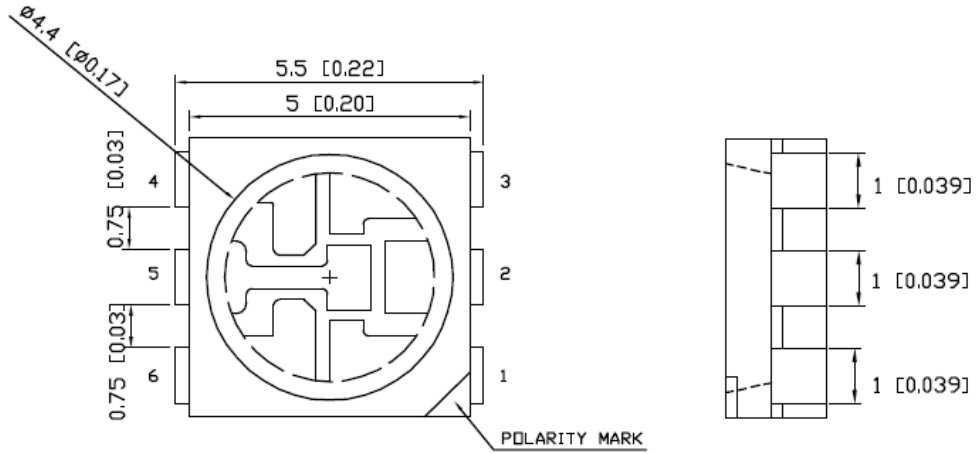
**Absolute Maximum Ratings(Ta=25°C)**

Parameter	Symbol	Value	Unit
Power dissipation/per chip	Pd	62	mW
Forward current/per chip	If	25	mA
Reverse voltage/per chip	Vr	5	V
Operating temperature range	Top	-40 ~+85	°C
Storage temperature range	Tstg	-40 ~+85	°C
Peak pulsing current per chip (1/8 duty f=1kHz)	I <sub>fp</sub>	100	mA



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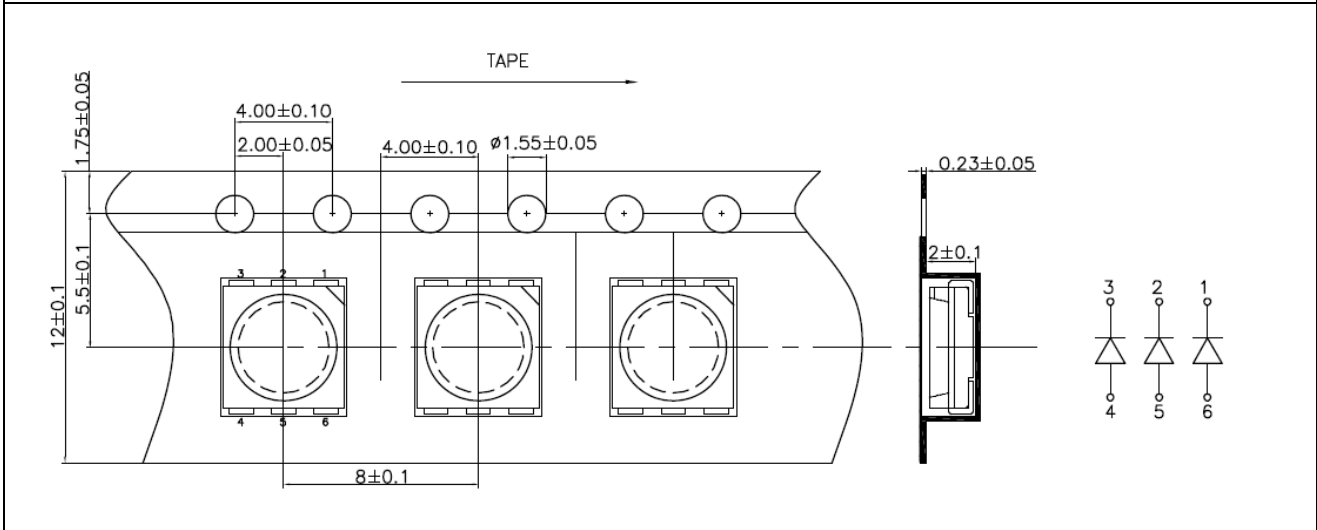
## PACKAGING DIMENSIONS & RECOMMENDED SOLERING PATTERN



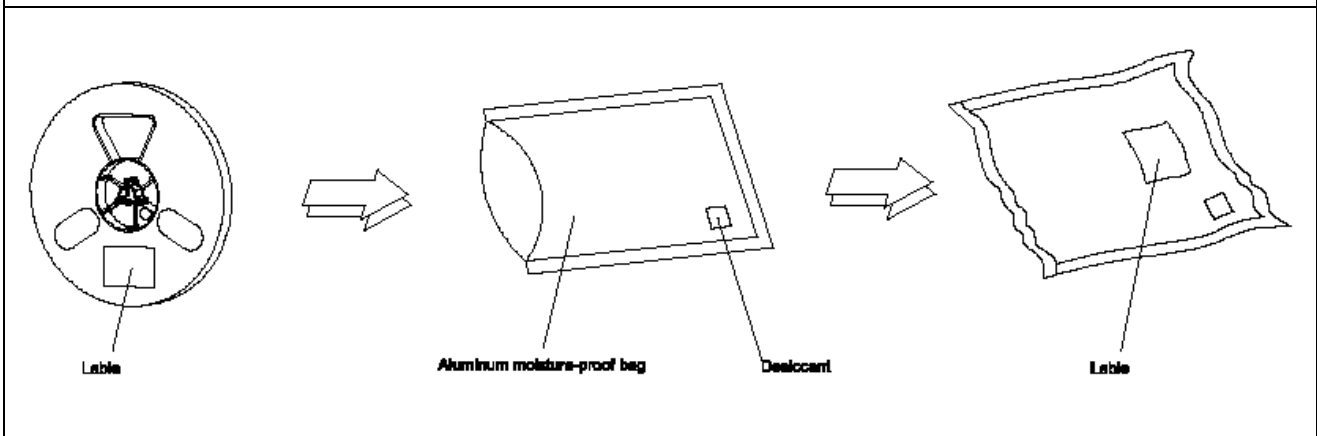


## PACKAGING SPECIFICATIONS

### Dimensions of Tape (Unit: mm)



### Moisture Resistant Packaging



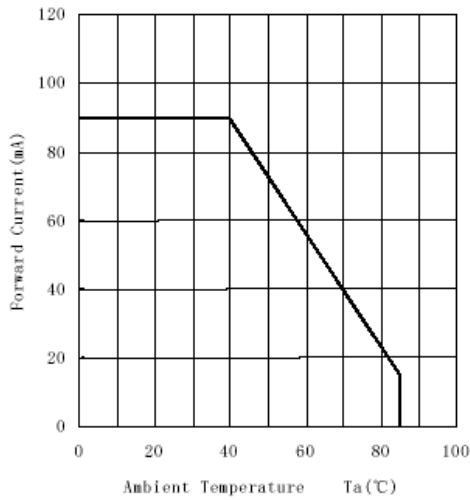
### NOTES

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

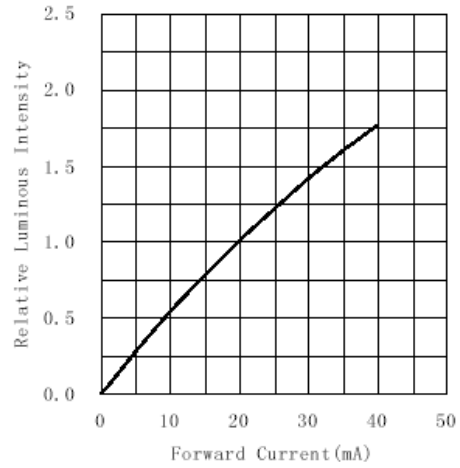


## Typical optical characteristics curves

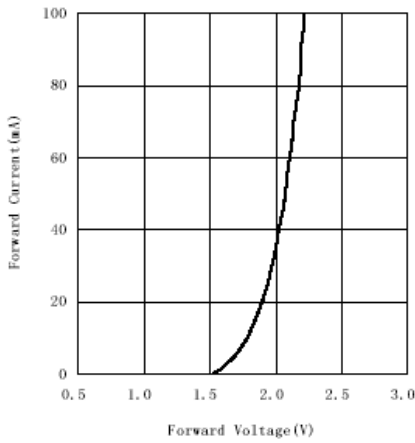
Ambient Temperature VS. Forward Current



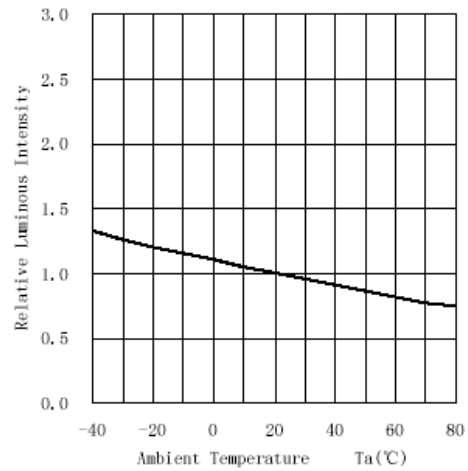
Forward Current VS. Relative Intensity



Forward Voltage VS. Forward Current



Ambient Temperature VS. Relative Intensity



Relative spectral emission

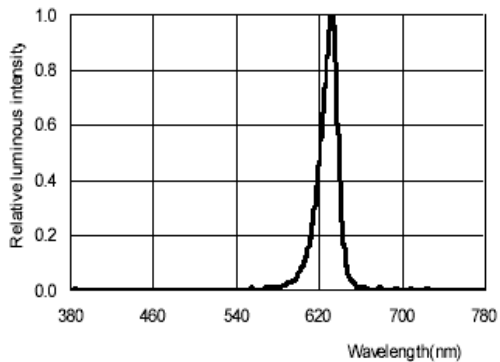


Diagram characteristics of radiation

