



YETDA INDUSTRY LTD.

Technical Data Sheet

MODEL NO : Q3014R4-G

3014 Package 3.0*1.4 mm Top 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
AlGaInP	Red	Water transparent

Electrical/Optical Characteristics(Ta=25°C)

Parameter	Test Condition	Symbol	Value			Unit
			Min	Typ	Max	
Wavelength at peak emission	IF=20mA	△ λ		19		nm
Dominant wavelength	IF=20mA	λ D	615	620	630	nm
Forward voltage	IF=20mA	V _F	1.8	2.0	2.4	V
Luminous intensity	IF=20mA	I _V	430	700		mcd
Viewing angle at 50% I _V	IF=20mA	2θ 1/2		120		Deg
Reverse current	V _R =5V	I _R			10	μA

Absolute Maximum Ratings(Ta=25°C)

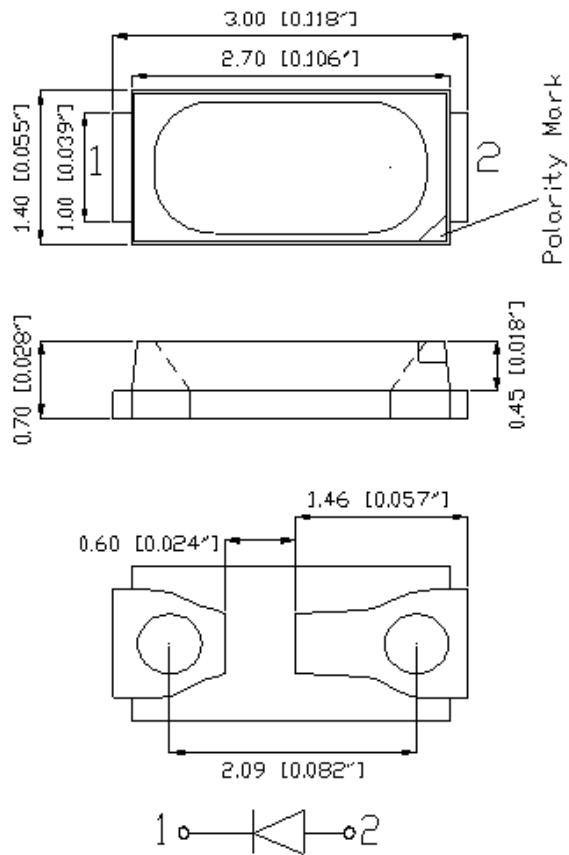
Parameter	Symbol	Value	Unit
Power dissipation	P _d	75	mW
Forward current	I _F	30	mA
Reverse voltage	V _R	5	V
Operating temperature range	T _{op}	-40 ~+80	°C
Storage temperature range	T _{stg}	-40 ~+100	°C
Peak pulsing current (1/8 duty f=1kHz)	I _{fp}	125	mA

2015JUN21W

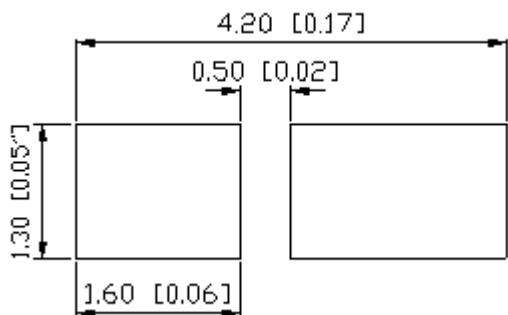


YETDA INDUSTRY LTD.

PACKAGING DIMENSIONS



RECOMMEND PAD LAYOUT





YETDA INDUSTRY LTD.

Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

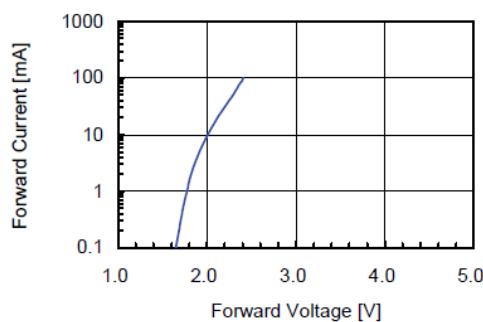


Fig 2. Relative Intensity vs. Forward Current

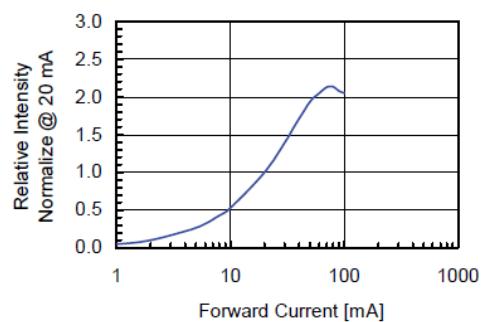


Fig 3. Forward Voltage vs. Temperature

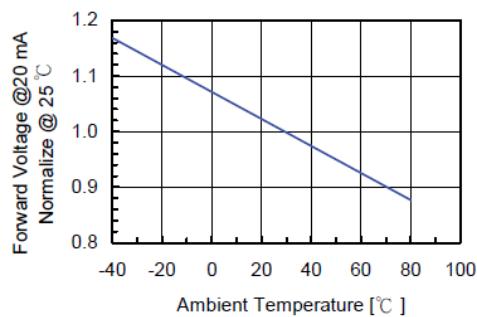


Fig 4. Relative Intensity vs. Temperature

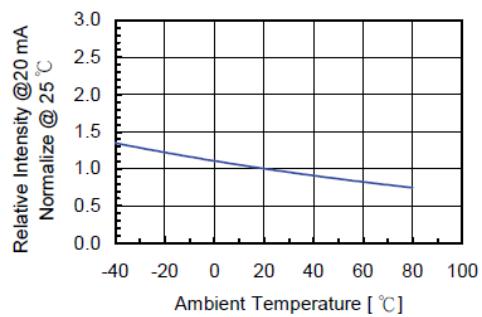
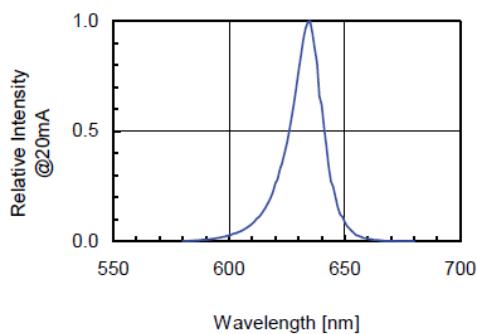


Fig 5. Relative Intensity vs. Wavelength

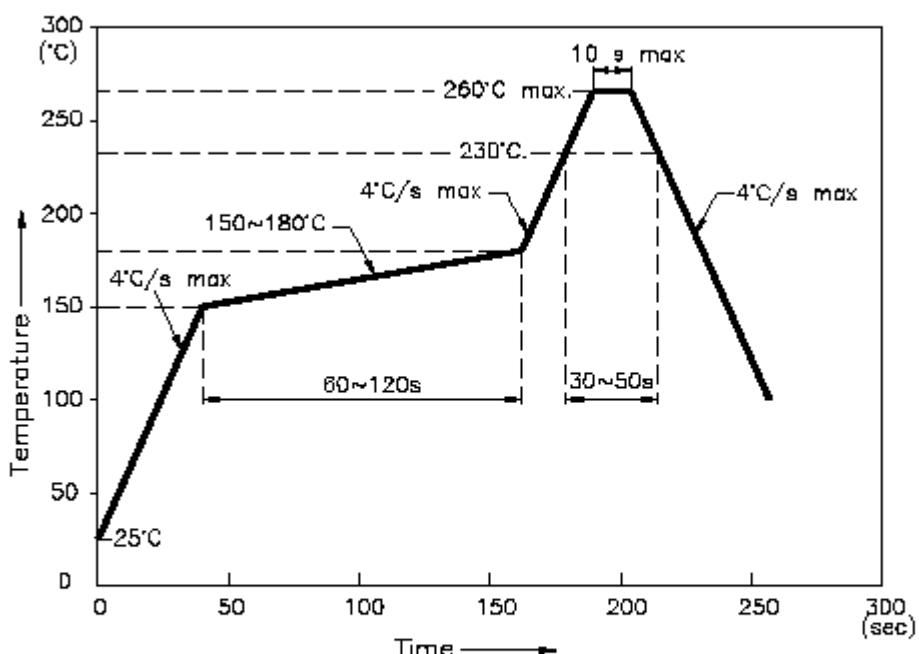




YETDA INDUSTRY LTD.

Soldering Profile

Reflow Soldering Profile For Lead-free SMT Process.



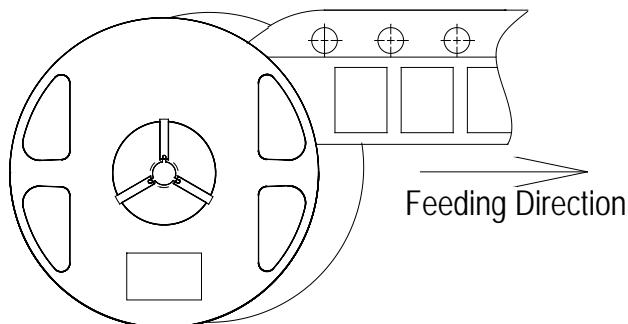
NOTES:

1. We recommend the reflow temperature 245°C (+/- 5°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.

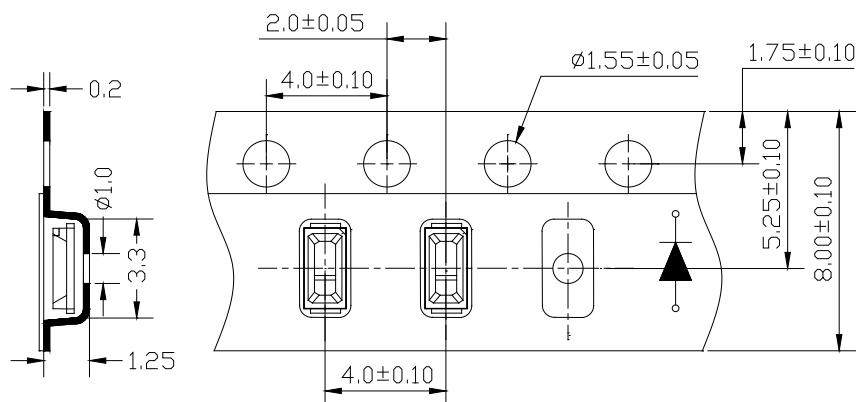


YETDA INDUSTRY LTD.

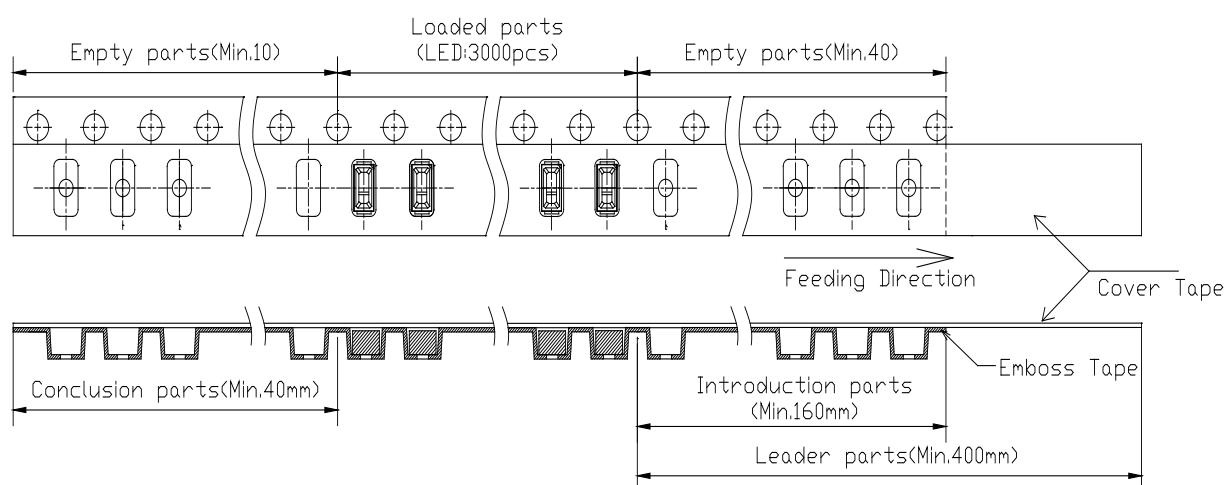
■Feeding Direction



■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. 3,000pcs/Reel