



# YETDA INDUSTRY LTD.

## Technical Data Sheet

**MODEL NO : Q192INZ4-M**

**SMD Package 1.6\*0.8mm\*0.7mm Chip LEDs**

Features :

- Package in 8mm tape on 7" diameter reel
- 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
InGaAlP	Yellow	Water Clear

Electrical/Optical Characteristics(Ta=25°C)

Parameter	Test Condition	Symbol	Value			Unit
			Min	Typ	Max	
Dominant wavelength	I <sub>F</sub> =20mA	λ <sub>D</sub>	586		596	nm
Forward voltage	I <sub>F</sub> =20mA	V <sub>F</sub>	1.8		2.5	V
Luminous intensity	I <sub>F</sub> =20mA	I <sub>v</sub>	225		385	mcd
Viewing angle at 50% I <sub>v</sub>	I <sub>F</sub> =10mA	2 θ 1/2		120		Deg
Reverse current	V <sub>R</sub> =5V	I <sub>R</sub>			10	μA

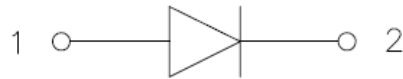
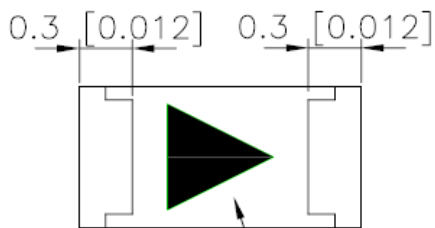
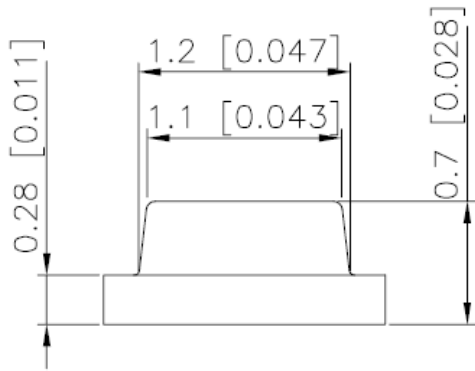
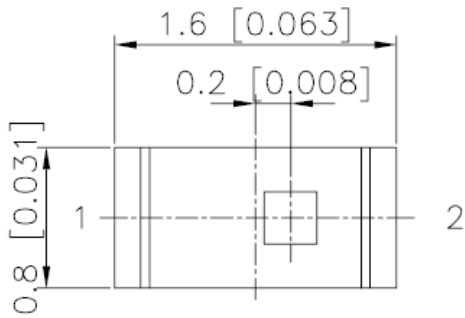
Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Value	Unit
Power dissipation	P <sub>d</sub>	62	mW
Forward current	I <sub>F</sub>	25	mA
Reverse voltage	V <sub>R</sub>	5	V
Operating temperature range	T <sub>op</sub>	-40 ~+85	°C
Storage temperature range	T <sub>stg</sub>	-40 ~+85	°C
Peak pulsing current (1/8 duty f=1kHz)	I <sub>FP</sub>	100	mA



YETDA INDUSTRY LTD.

PACKAGING DIMENSIONS (mm):

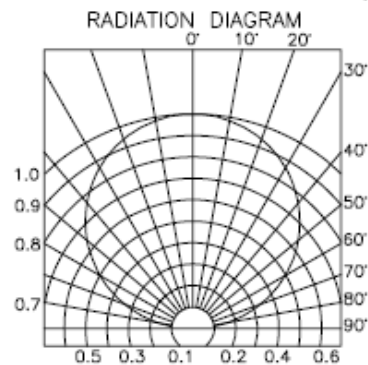
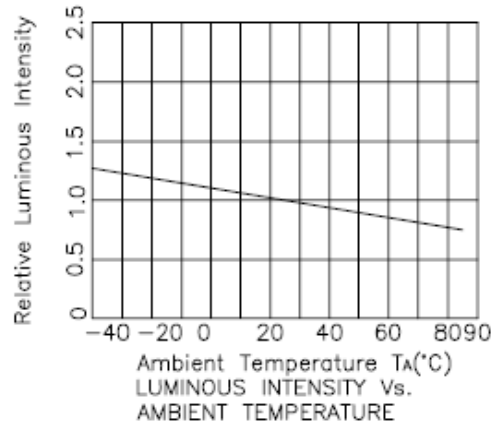
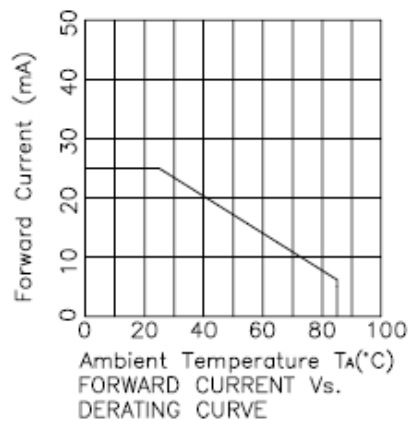
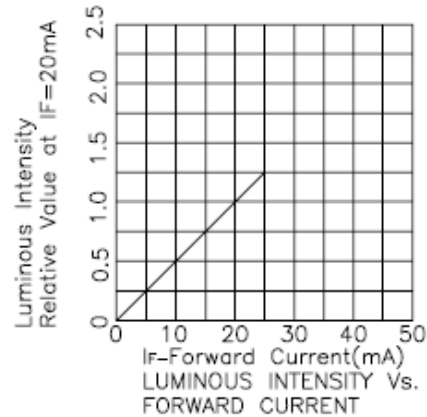
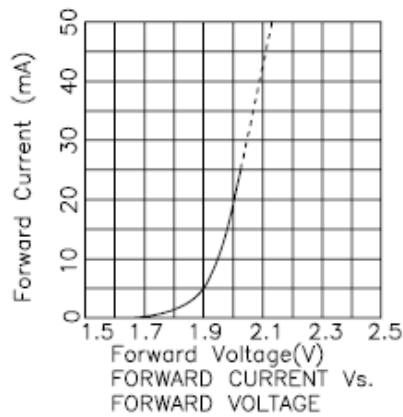
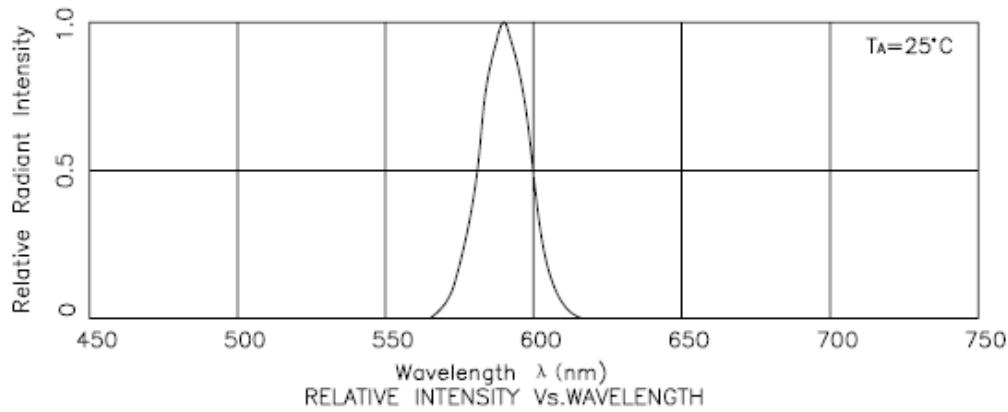


POLARITY MARK



# YETDA INDUSTRY LTD.

## Typical Electrical/Optical Characteristics Curves

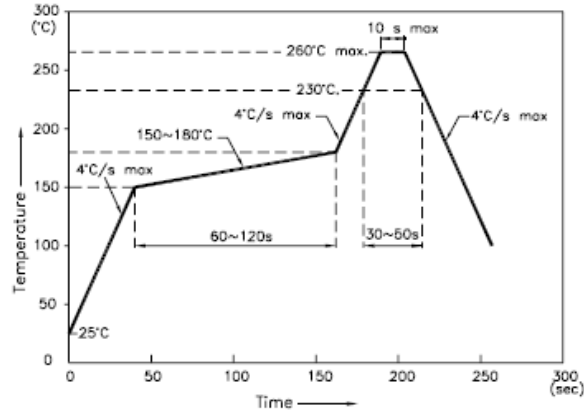




# YETDA INDUSTRY LTD.

## ◆ Soldering Profile

Reflow Soldering Profile For Lead-free SMT Process.

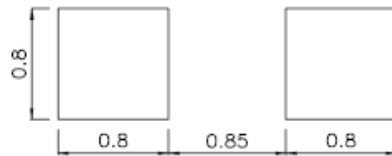


NOTES:

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.

## ◆ Recommended soldering pattern

(Units:mm)



## ◆ Tape specifications

(Units:mm)

