



YETDA INDUSTRY LTD.

**8mm Super Red LED Lamps
S810ANH1D-C**

8 mm with AlGaInP Dice ◦

Encapsulated with Red Diffused Package ◦

Long Leads ◦

Absolute Maximum Ratings : (Ta=25°C)

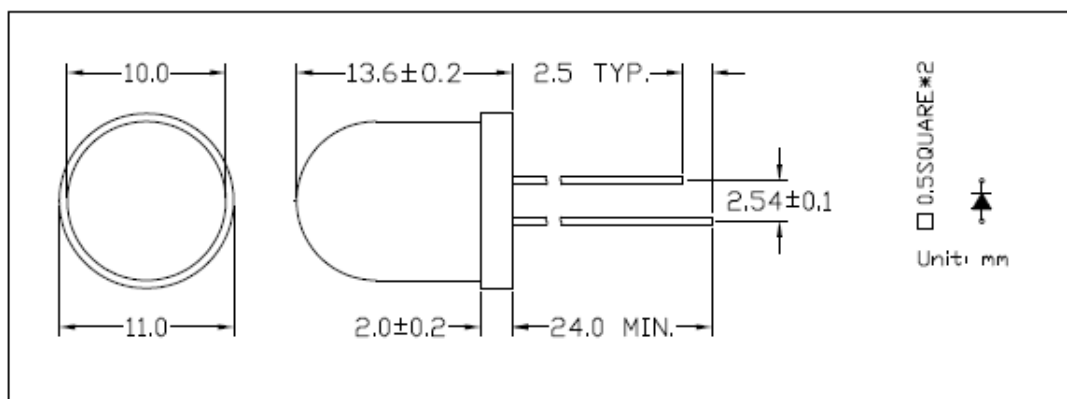
Parameter	Maximum Rating	Unit
Peak Forward Current	120	mA
Continuous Forward Current	30	mA
Operating Temperature Range	-40°C to +85°C	
Storage Temperature Range	-50°C to +100°C	
Lead Soldering Temperature	260°C for 3 seconds 1.6mm(0.063 inch) from body	

Electro-Optical Characteristics (Ta = 25°C)

Parameter Radiant	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	I _F = 20mA	V _F	1.8		2.4	V
Reverse Current	V _R =5V	I _R			10	uA
Luminous Intensity	I _F = 20mA	I _v		50		mcd
Spectral Bandwidth	I _F = 20mA	Δλ				nm
Wavelength	I _F = 20mA	λ _p			645	nm
		λ _d	640		645	nm
Viewing Angle	I _F = 20mA	2 θ _{1/2}		120		deg

Package

Item: 810 (10mm)





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■ Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

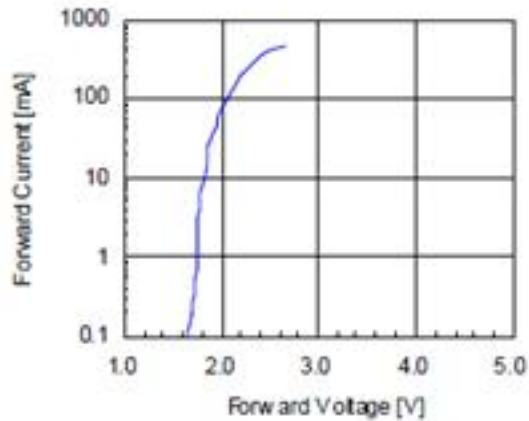


Fig 2. Relative Intensity vs. Forward Current

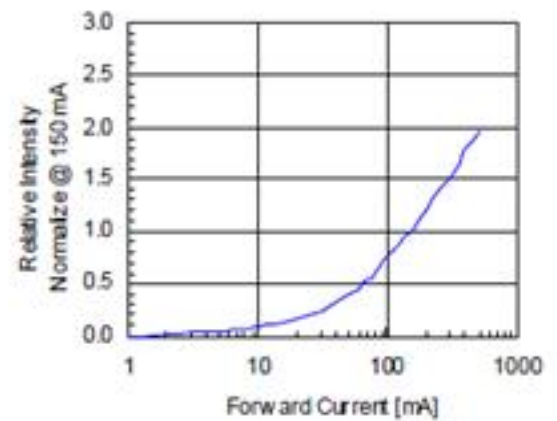


Fig 3. Forward Voltage vs. Temperature

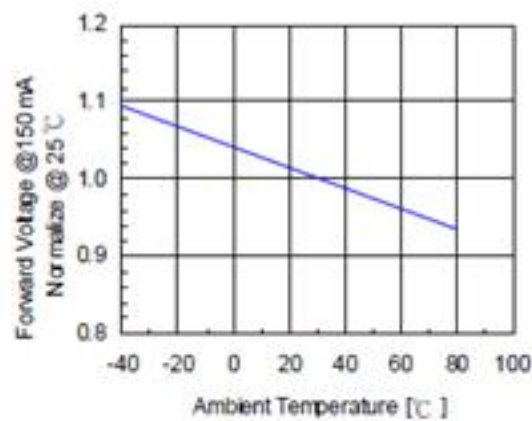


Fig 4. Relative Intensity vs. Temperature

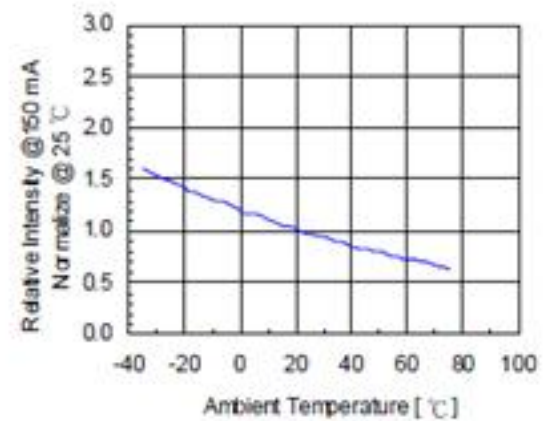
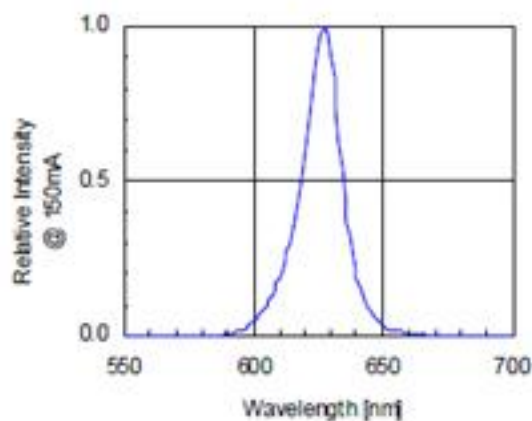


Fig 5. Relative Intensity vs. Wavelength





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•Soldering:

1. Manual of soldering

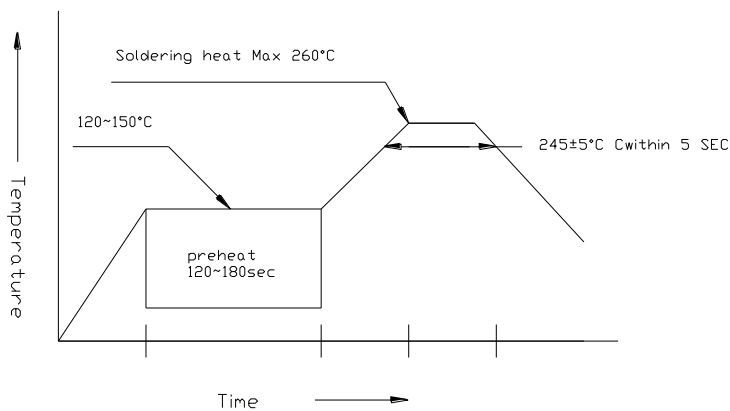
The temperature of the iron tip should not be higher than 260°C and

Soldering within 3 seconds per solder-land is to be observed

2. DIP soldering (Wave Soldering):

Preheating: 120°C ~ 150°C within 5 sec. 260°C (Max)

Gradual Cooling (Avoid quenching)

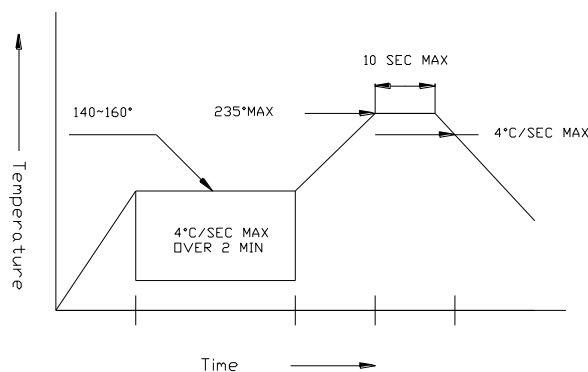


3. Reflow Soldering

Preheating: 140°C ~ 160°C ± 5°C, within 2 minutes.

Operation heating: 235°C (Max) within 10 seconds (Max)

Gradual Cooling (Avoid quenching)



•Handling:

Care must be taken not to cause to the epoxy resin portion of Yetda LEDs while it is exposed to high temperature.

Care must be taken not rub the epoxy resin portion of Yetda LEDs with hard or sharp article such as the sand blast and the metal hook