



YETDA INDUSTRY LTD.

5mm Hi Bright Red LED Lamps 500SK1D

5 mm with Super Bright Red dice.
Encapsulated with Red Diffused package.
Long Leads.

Absolute Maximum Ratings :

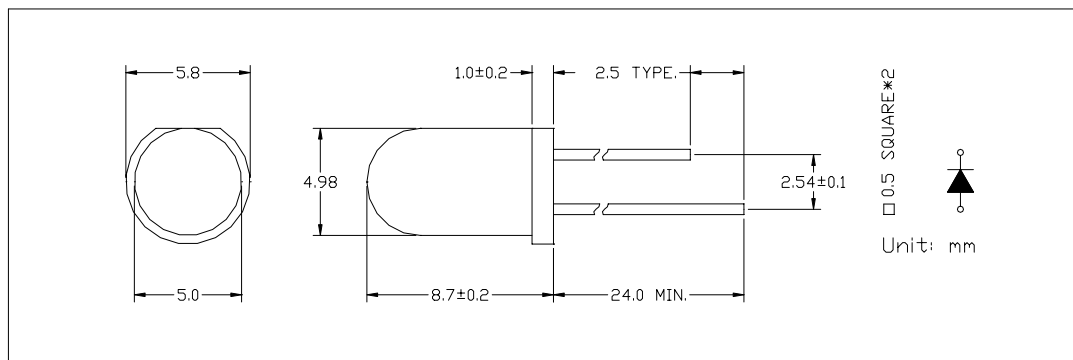
Parameter	Maximum Rating	Unit
Peak Forward Current	120	mA
Continuous Forward Current	30	mA
Operating Temperature Range	- 40 to + 85	
Storage Temperature Range	- 50 to + 100	
Lead Soldering Temperature	260 for 3 seconds 1.6mm(0.063 inch) from body	

Electro-Optical Characteristics (Ta = 25)

Parameter Radiant	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	If = 20mA	Vf		1.8	2.2	V
Reverse Current	Vr = 5V	Ir			10	uA
Luminous Intensity	If = 20mA	Iv	20	40		mcd
Spectral Bandwidth	If = 20mA	$\Delta\lambda$		35		nm
Wavelength	If = 20mA	λ_p				nm
		λ_d		660		nm
Half View Angle	If = 20mA	2 $\theta_{1/2}$		80		deg

Package

Item: 500





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Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

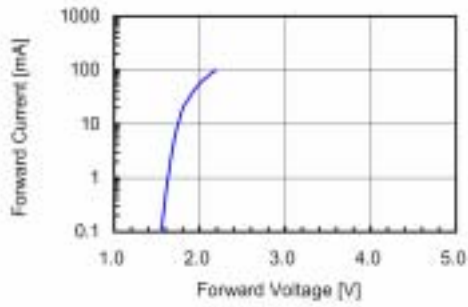


Fig 2. Relative Intensity vs. Forward Current

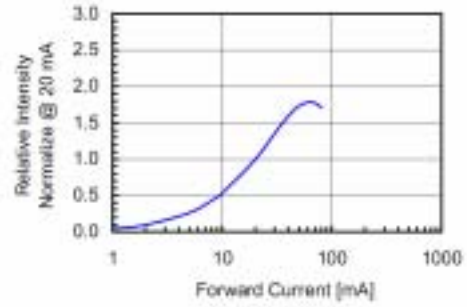


Fig 3. Forward Voltage vs. Temperature

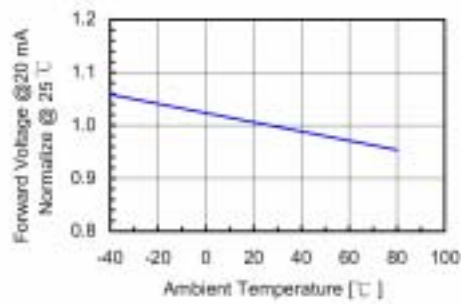


Fig 4. Relative Intensity vs. Temperature

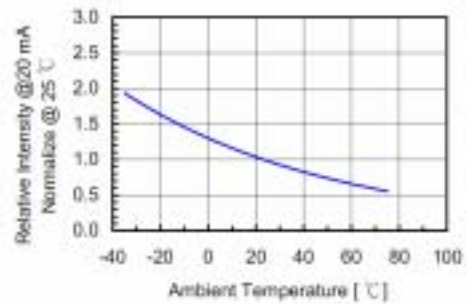
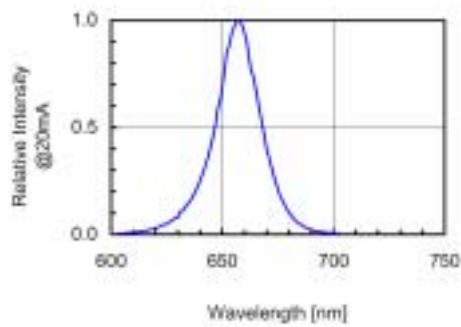


Fig 5. Relative Intensity vs. Wavelength





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Soldering:

1. Manual of soldering

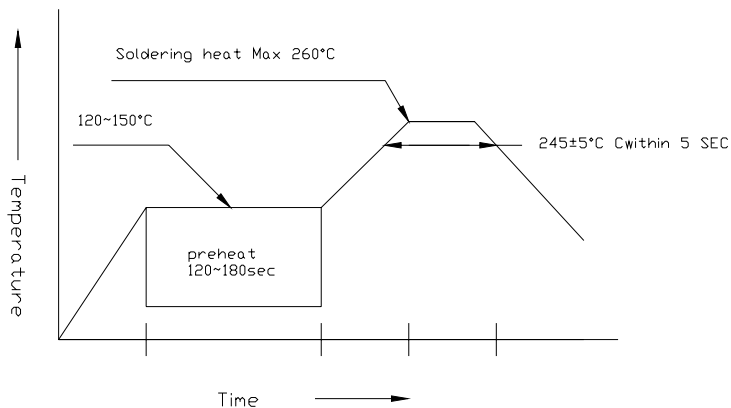
The temperature of the iron tip should not be higher than 260 and

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

2. DIP soldering (Wave Soldering):

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

Gradual Cooling (Avoid quenching)

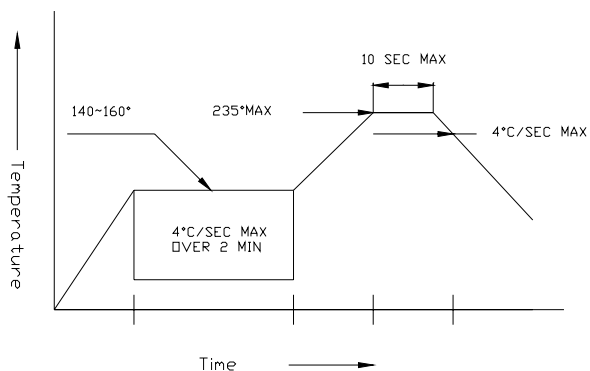


3. Reflow Soldering

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

Operation heating: 235 (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