



YETDA INDUSTRY LTD.

3mm Red Low Current LED Lamps U300D1G-D

3 mm with AlGaAs/GaAs dice ◦

Encapsulated with Red Diffused package ◦

Long Leads ◦

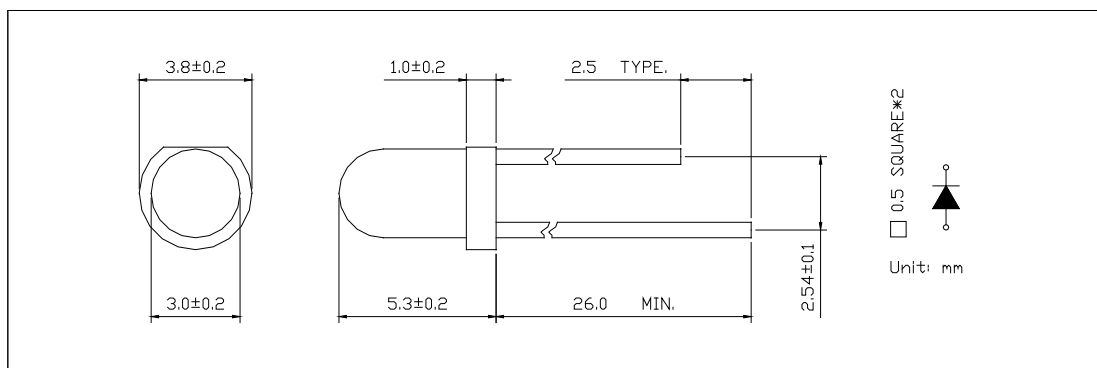
Absolute Maximum Ratings : (Ta=25°C)

Parameter	Symbol	Maximum Rating	Unit
Power Dissipation	PD	14	mw
Reverse Voltage	VR	5	V
Average Forward Current	LAF	30	mA
Peak Forward Current (Duty=0.1,10KHZ)	IPF	120	mA
Operating Temperature Range	T _{OPR}	-20°C to +80 °C	
Storage Temperature Range	T _{STG}	-40°C to +100 °C	
Lead Soldering Temperature { 1.6mm(0.063inch) From Body } 260°C For 3 Seconds			

Electro-Optical Characteristics (Ta = 25°C)

Parameter	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	I _F = 2mA	V _F		1.7	2.0	V
Reverse Current	V _R = 5V	I _R	5			uA
Luminous Intensity	I _F = 2mA	I _v	0.8	2.1		mcd
Wavelength	I _F = 2mA	λ _d		640		nm
Viewing Angle	I _F = 2mA	2θ 1/2		80		deg

Item: 300



2015MAY30D



■ Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

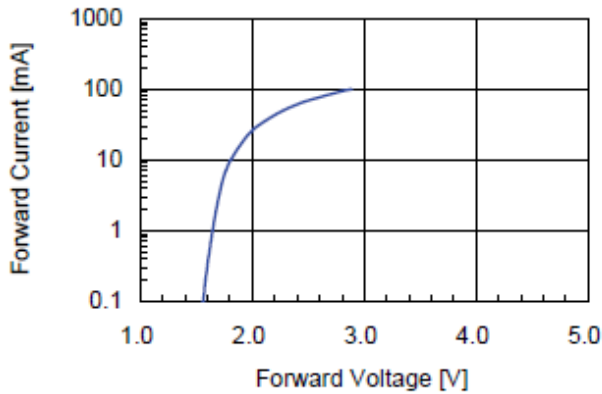


Fig 2. Relative Intensity vs. Forward Current

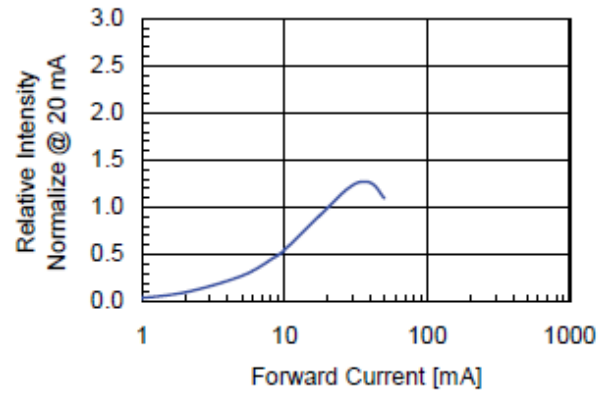


Fig 3. Forward Voltage vs. Temperature

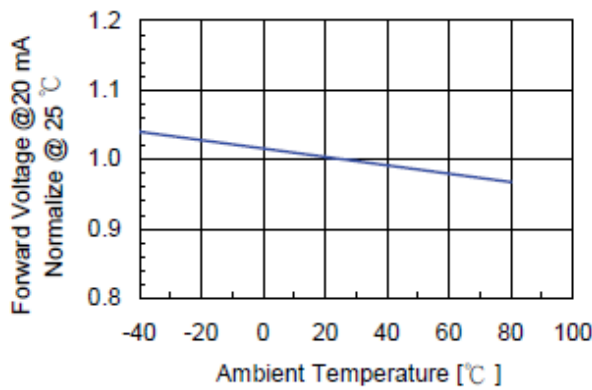


Fig 4. Relative Intensity vs. Temperature

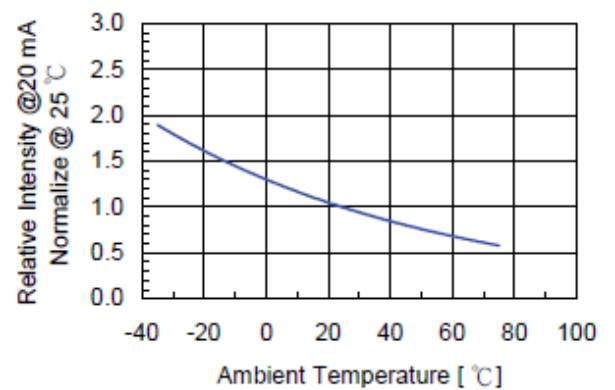
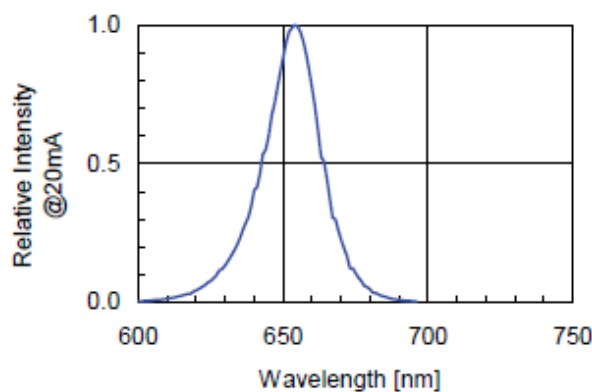


Fig 5. Relative Intensity vs. Wavelength





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•Soldering:

1. Manual of soldering

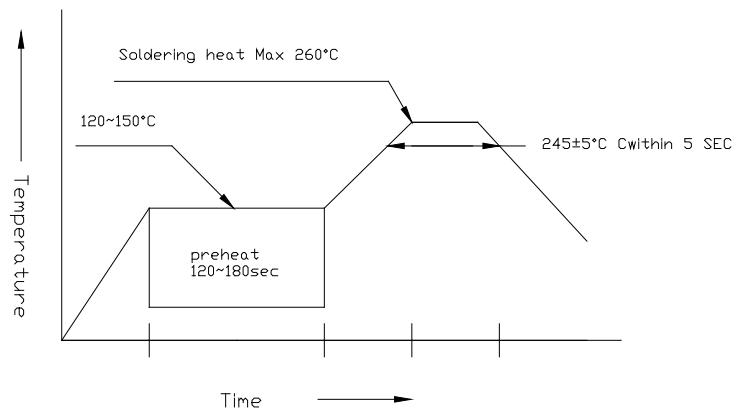
The temperature of the iron tip should not be higher than 260 °C and

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

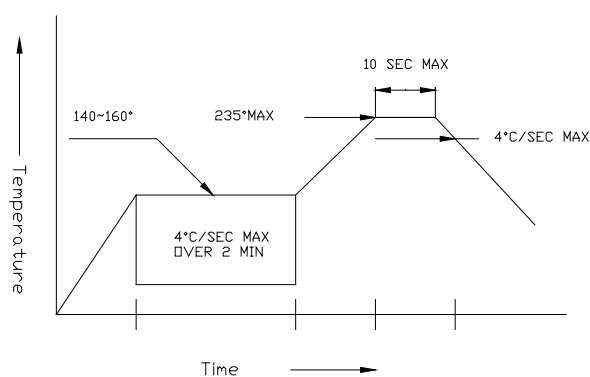
Preheating: 140

160°C ±5°C, within 2 minute

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