



YETDA INDUSTRY LTD.

5mm Oval Pure-green LED Lamps S546TG4D-BK

5mm Oval with InGaN Dice ◦

Encapsulated with Water Clear Lens Package ◦

Long Leads ◦

Absolute Maximum Ratings : (Ta=25°C)

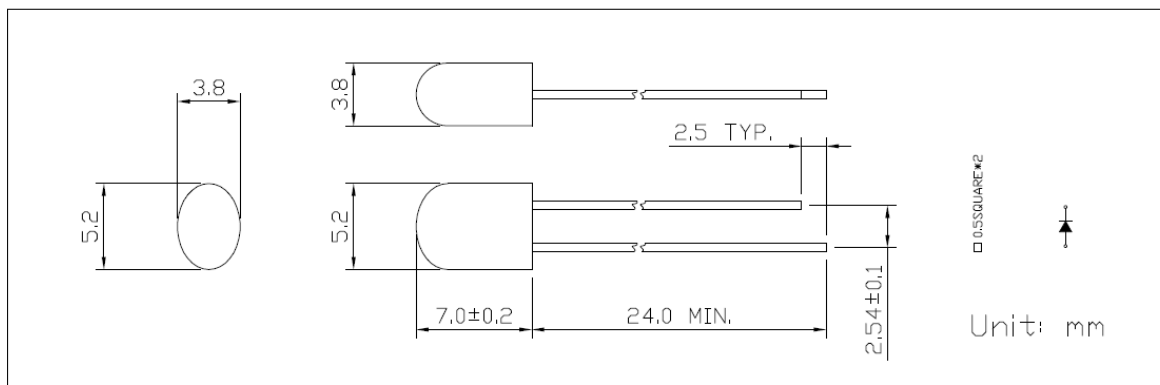
Parameter	Symbol	Maximum Rating	Unit
Power Dissipation	PD	85	mw
Reverse Voltage	VR	5	V
Average Forward Current	LAF	30	mA
Peak Forward Current (Duty=0.1,10KHZ)	IPF	75	mA
Operatating Temperature Range	T _{OPR}	-25°C to +80	°C
Storage Temperature Range	T _{STG}	-35°C to +85	°C
Lead Soldering Temperature { 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 = 20mA	V _F		3.2	3.6	V
Reverse Current	V _R =5V	I _R			10	uA
Luminous Intensity	I _F = 20mA	I _v	4500	5500	6500	mcd
Wavelength	I _F = 20mA	λ _p				nm
		λ _d	515	520	525	nm
Viewing Angle	I _F = 20mA	2θ 1/2		75		deg

Package

Item: 546





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Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

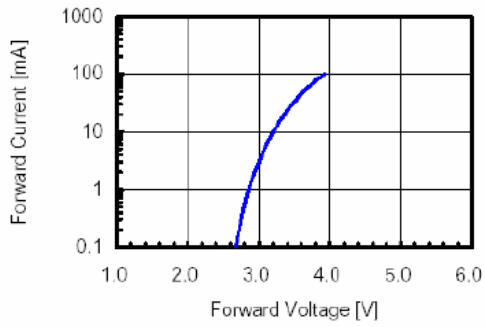


Fig 2. Relative Intensity vs. Forward Current

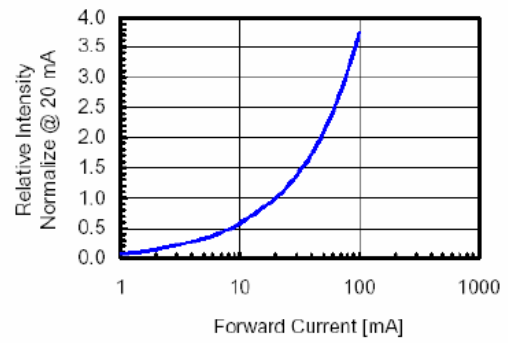


Fig 3. Forward Voltage vs. Temperature

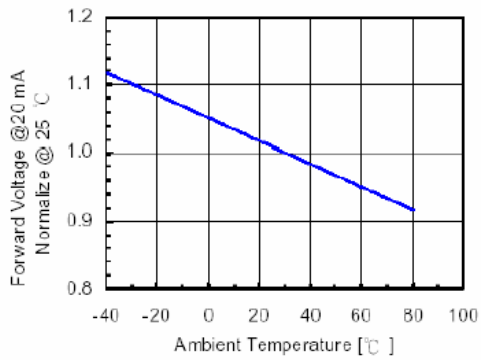


Fig 4. Relative Intensity vs. Temperature

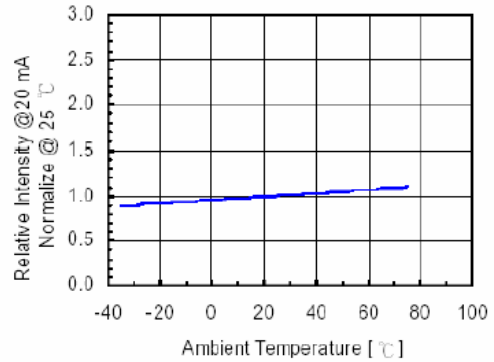
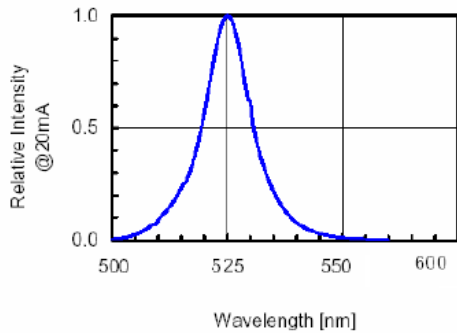


Fig 5. Relative Intensity vs. Wavelength





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Soldering:

1. Manual of soldering

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

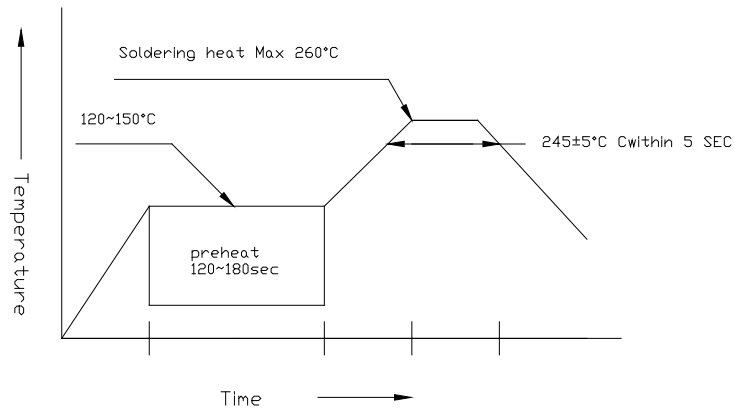
Soldering within 3 seconds per solder-land is to be observed

2. DIP soldering (Wave Soldering):

Preheating: 120

°C ~ 150°C within 5 sec. 260°C (Max)

Gradual Cooling (Avoid quenching)



•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