



YETDA INDUSTRY LTD.

10mm Blinking White Super Bright LED Lamps

B810W4F

10mm with InGaN Dice with IC chip 2.5Hz ◦

Encapsulated with water clear lens Package ◦

Long Leads ◦

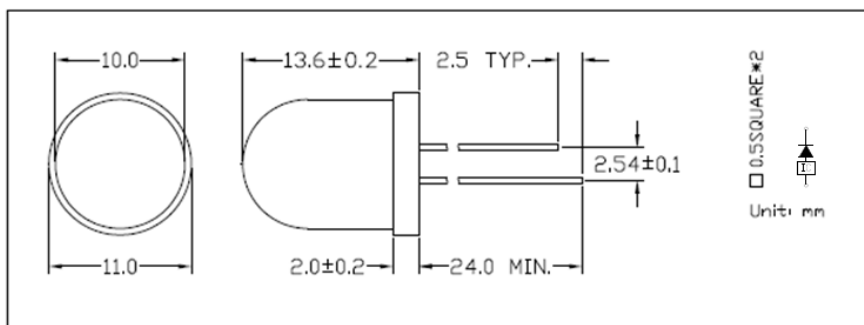
Absolute Maximum Ratings : (Ta=25°C)

Parameter	Symbol	Maximum Rating	Unit
Power Dissipation	PD	85	mw
Reverse Voltage	VR	15	V
Average Forward Current	LAF	30	mA
Peak Forward Current (Duty=0.1,10KHZ)	IPF	200	mA
Opertating Temperature Range	TOPR	-25°C to +80 °C	
Storage Temperature Range	TSTG	-35°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	IF = 20mA	VF	2.8	3.2	3.5	V
Reverse Current	VR =5V	IR			10	uA
Luminous Intensity	IF = 20mA	Iv	10000	12500		mcd
Wavelength	IF = 20mA	X		0.275		CIE
		Y		0.29		CIE
Viewing Angle	IF = 20mA	2θ 1/2		30		deg

Item: 810 (10mm)



14SEP19W



Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

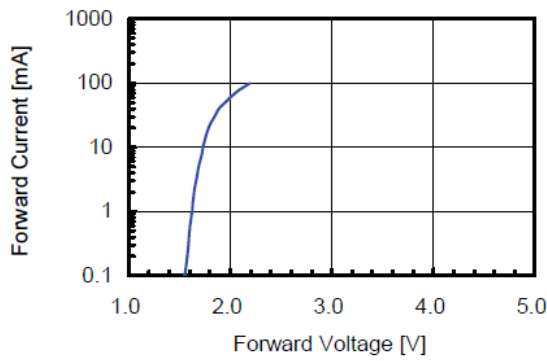


Fig 2. Relative Intensity vs. Forward Current

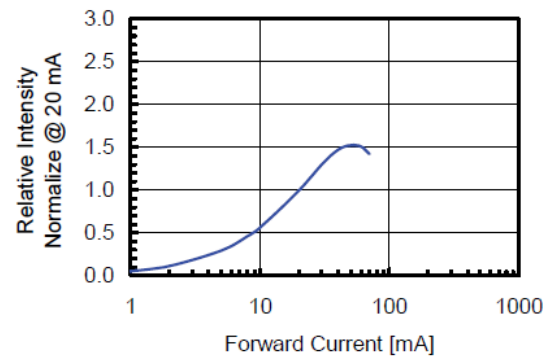


Fig 3. Forward Voltage vs. Temperature

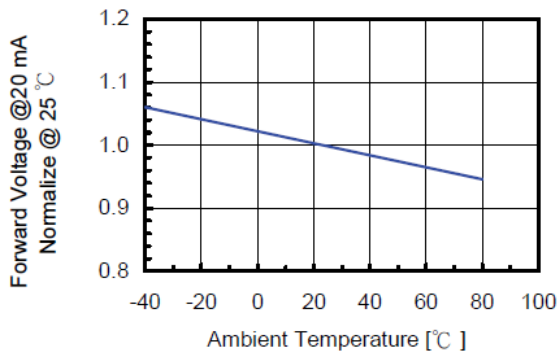
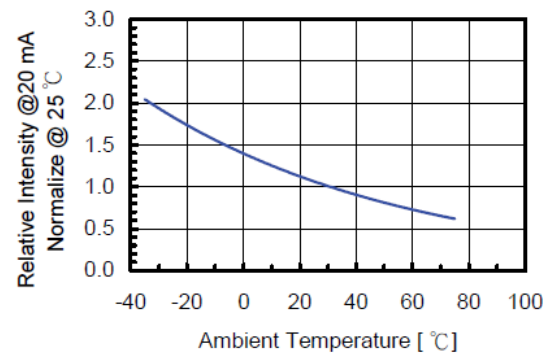


Fig 4. Relative Intensity vs. Temperature





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Soldering:

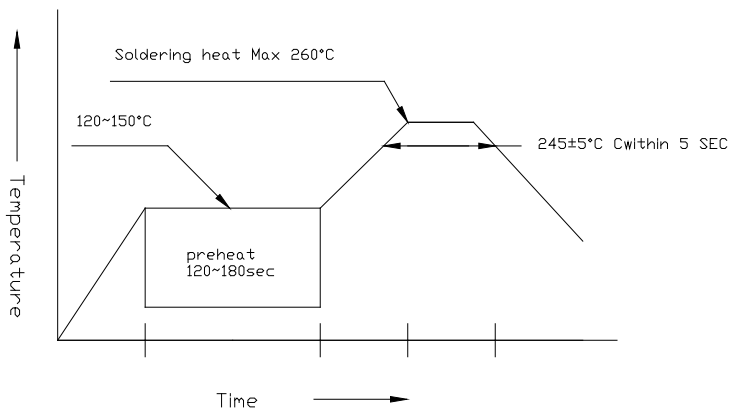
1. Manual of soldering

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