



# YETDA INDUSTRY LTD.

## 5mm Full Color Led Lamps 500RGB4E

5mm with Red and Pure Green and Blue Dice.

Encapsulated with Water Clear Lens package.

Blue Dice with Patent.

### 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 )

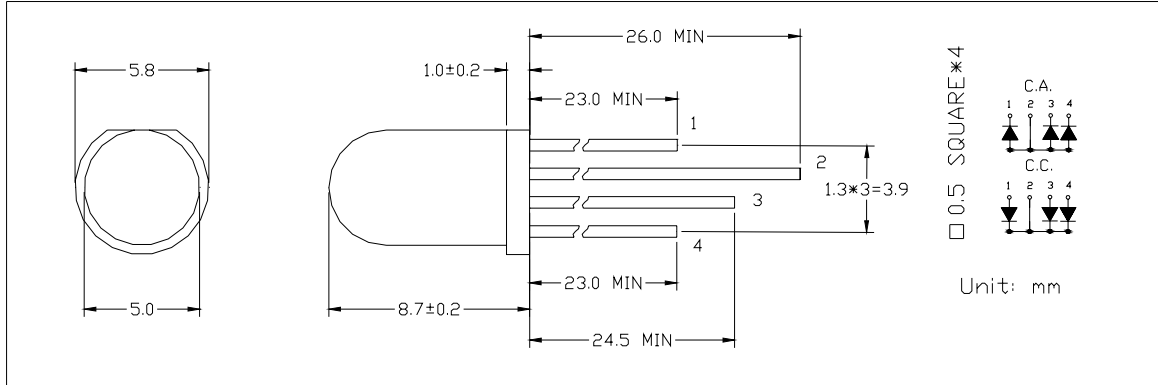
Parameter Radiant	Test Condition	Symbol	Min.	Typ.	Max.	Unit	
Forward Voltage	If = 20mA	R	1.80	1.95	2.45	V	
		G	3.0	3.3	3.8		
		B	3.0	3.3	3.8		
Reverse Current	Vr = 5V	Ir			50	uA	
Luminous Flux	If = 20mA	R	1000	1500	2000	mcd	
		G	4000	5000	6000		
		B	1000	1500	2000		
Spectral Bandwidth	If = 20mA	R		25		nm	
		G		30			
		B		30			
Wavelength	If = 20mA	p				nm	
		d	R	640	642	643	nm
			G	510	515	520	
B	465		468	470			
Half View Angle	If = 20mA	2 θ1/2		20		deg	



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## Package

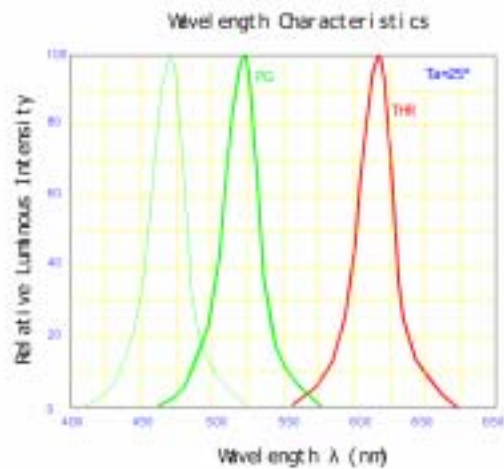
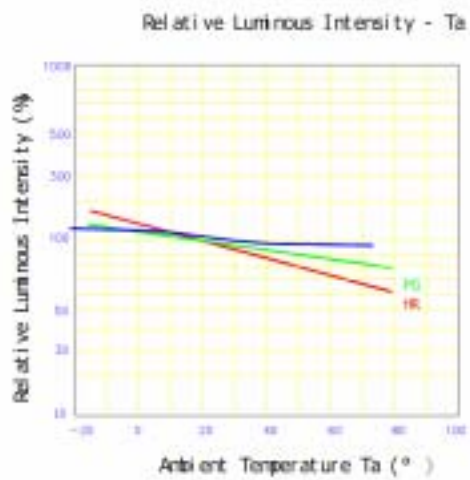
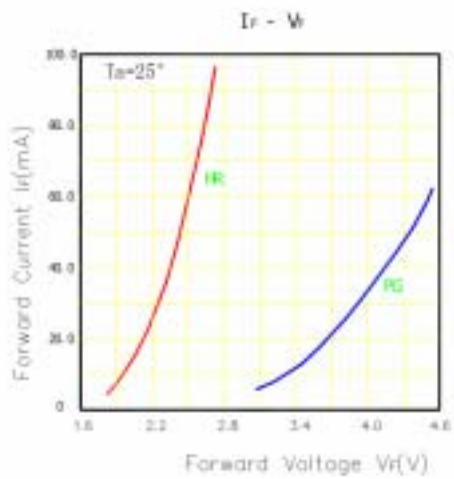
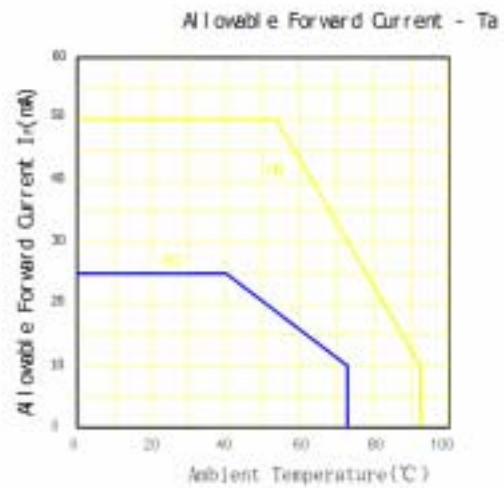
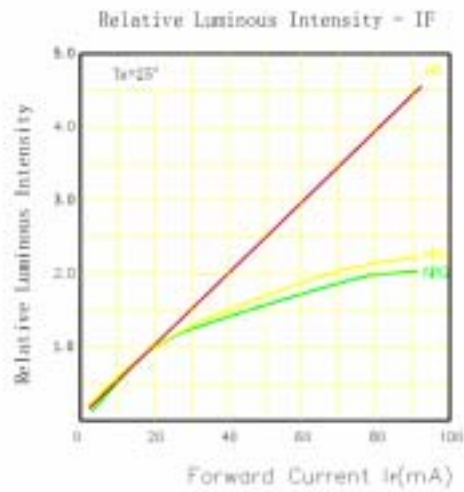
Item: 500RGB





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## Typical Electro-Optical Characteristics Curve:





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## Soldering:

### 1. Manual of soldering

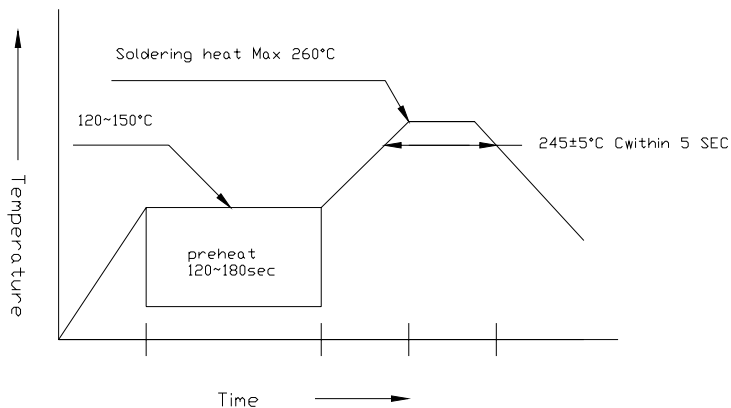
The temperature of the iron tip should not be higher than 260 and

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)

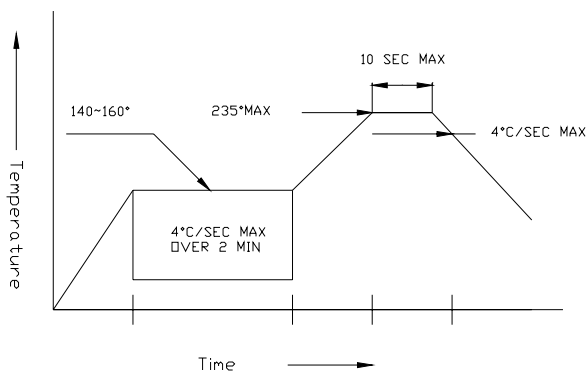


### 3. Reflow Soldering

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