YETDA INDUSTRY LTD.

5mm Blinking (Red + Pure Green + Blue) LED Lamps
B500RGB4F-BK

*5mm with FLASH IC and Red and Pure Green and Blue Dice。

*Encapsulated with Water Clear Package。

*Long Leads。

Absolute Maximum Ratings :

Parameter	Maximum Rating	Unit
Peak Forward Current	120	mA
Continuous Forward Current	30	mA
Operating Temperature Range	－20℃ to ＋75℃	
Storage Temperature Range	－25℃ to ＋85℃	
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	R		2.0	2.4	V
			G		3.2	3.6	
			B		3.2	3.6	
Reverse Current	Vr = 5V	Ir				10	uA
Luminous Flux	If = 20mA	Iv	R		600		mcd
			G		1000		
			B		400		
Spectral Bandwidth	If = 20mA	Δλ	R		25		nm
			G		30		
			B		30		
Wavelength	If = 20mA	λp	R	620	625	630	nm
			G	515	520	525	
			B	460	465	470	
		λd	R		625		nm
			G		525		
			B		470		
Half View Angle	If = 20mA	2θ1/2			25		deg

2016AUG28Y

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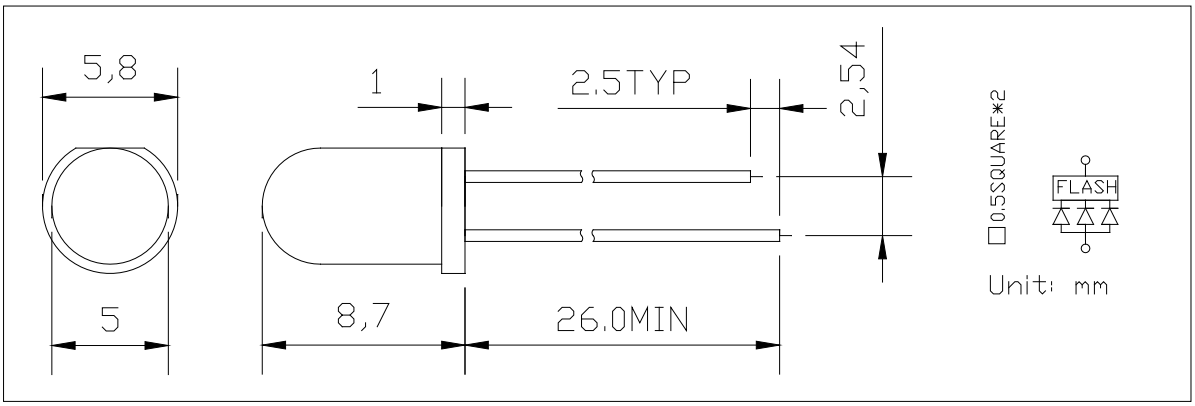
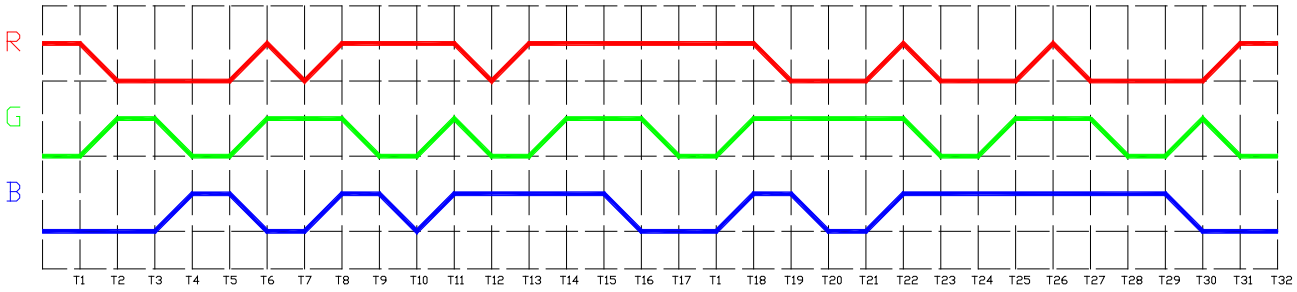
Package

Item:B500RGB



Flash Picture



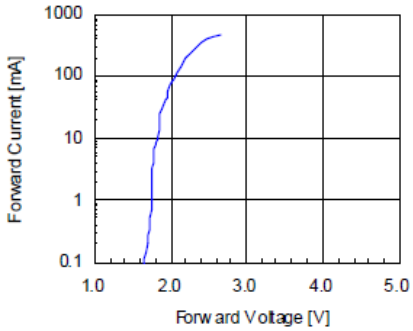


Fig 3. Forward Voltage vs. Temperature

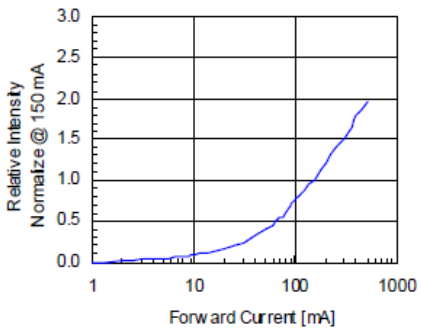
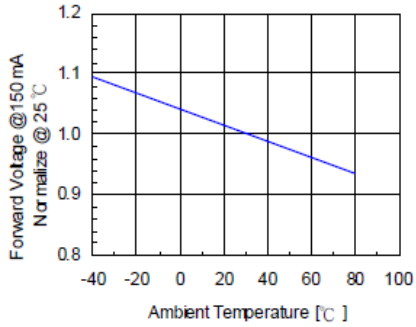


Fig 4. Relative Intensity vs. Temperature



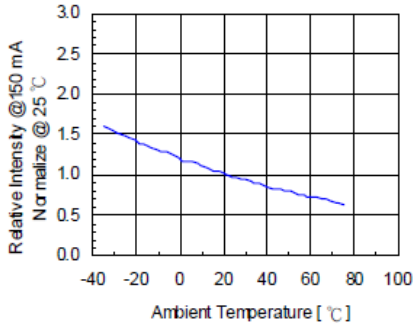


Fig 5. Relative Intensity vs. Wavelength

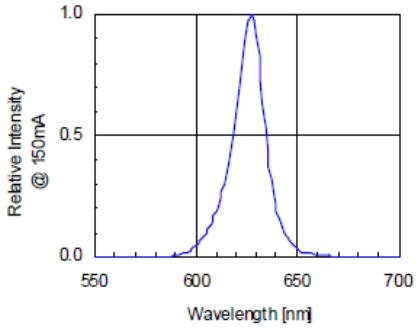


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Fig 1. Forward Current vs. Forward Voltage

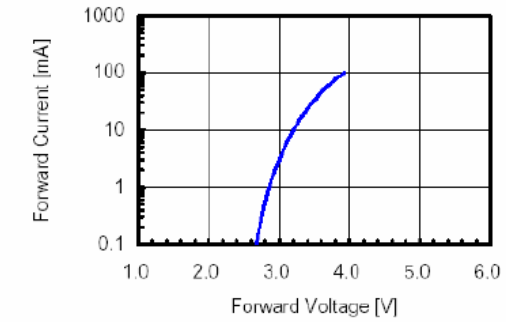


Fig 2. Relative Intensity vs. Forward Current

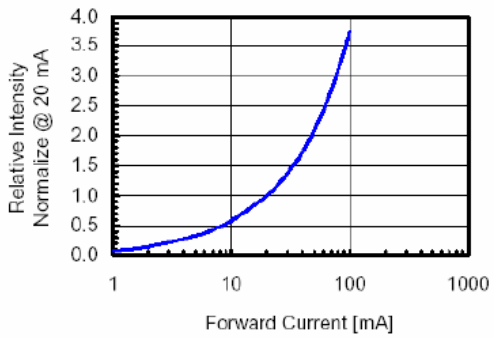
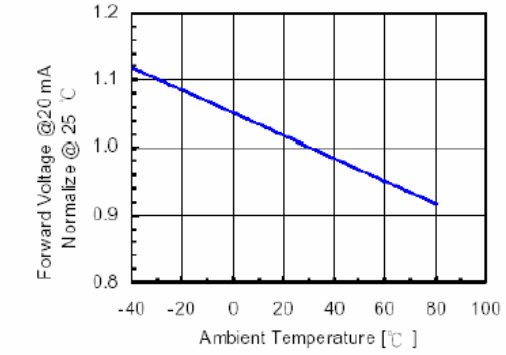


Fig 3. Forward Voltage vs. Temperature



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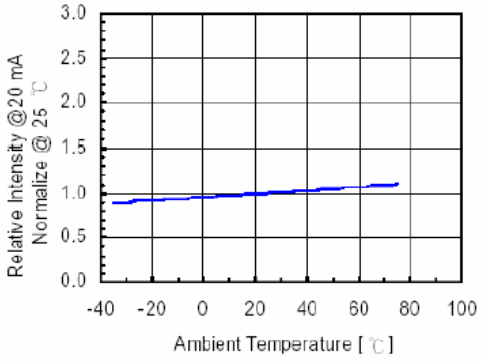


Fig 5.Relative Intensity vs. Wavelength

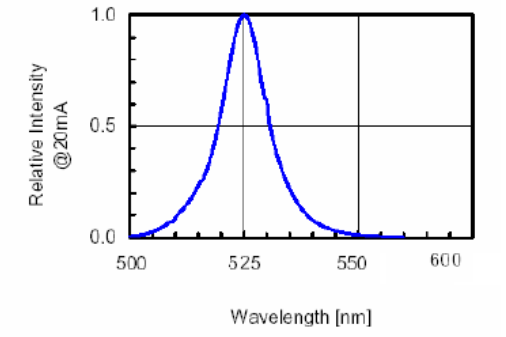


Fig 1. Forward Current vs. Forward Voltage

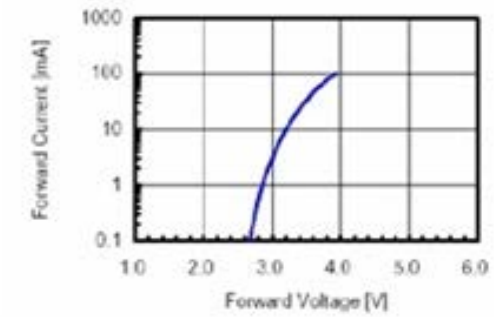


Fig 2. Relative Intensity vs. Forward Current

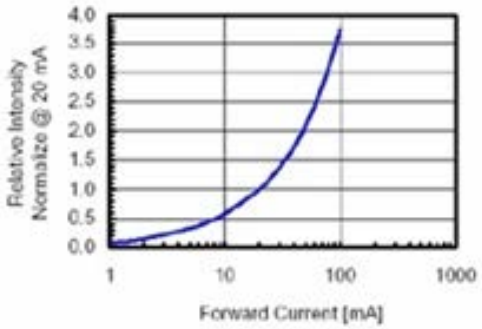
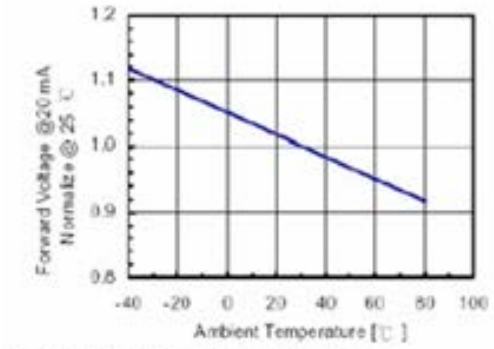


Fig 3. Forward Voltage vs. Temperature



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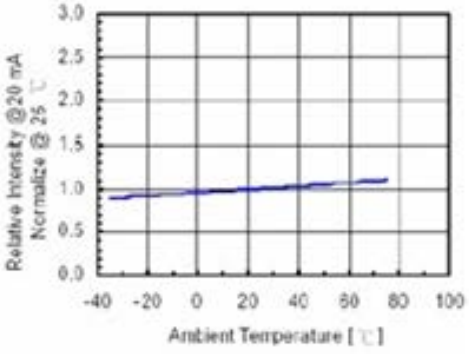

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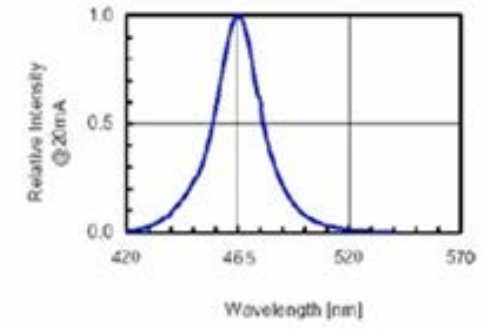


•Soldering:

1. Manual of soldering

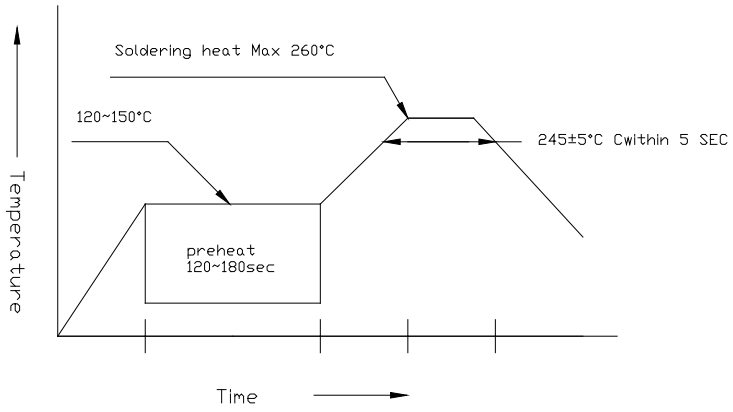
The temperature of the iron tip should not be higher than 260 ℃and

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)

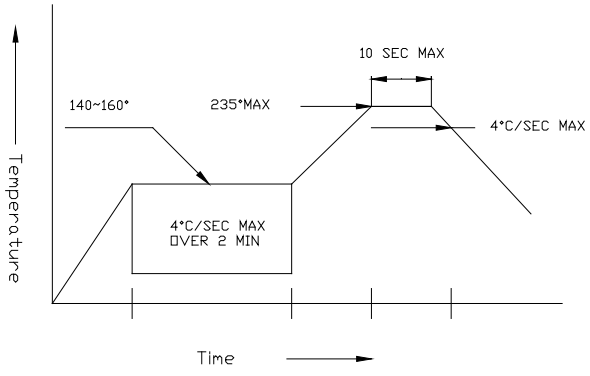


3. Reflow Soldering

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