YETDA INDUSTRY LTD.



5mm Super Bright Red Color LED Lamps Q500NDH4D

5mm with AlGaInP Dice •

Encapsulated with Water Clear Package with 2 leads $\,\circ\,$

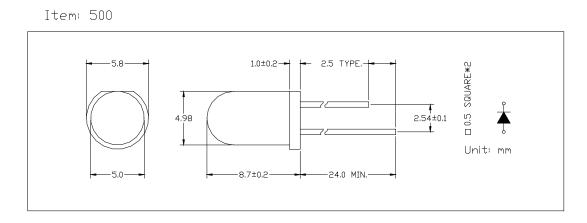
Long Leads •

Absolute Maximum Ratings : (Ta=25°C)

Parameter	Symbol	Maximum Rating	Unit			
Power Dissipation	Pd	100	mw			
Reverse Voltage	VR	5	V			
Average Forward Current	LAF	30	mA			
Peak Forward Current (Duty=0.1,10KHZ)	IPF	200	mA			
Opertating Temperature Range	Topr	-20°C to +80	°C			
Storage Temperature Range	Tstg	-40°C to +100	°C			
Lead Soldering Temperature {1.6mm(0.063inch) From Body} 260°C For 3 Seconds						

Electro-Optical Characteristics ($Ta = 25^{\circ}C$)

Parameter	Test Condition	Symbol	Min.	Тур.	Max.	Unit
Forward Voltage	IF = 20mA	VF		2.0	2.4	V
Reverse Current	Vr =5V	IR			10	uA
Luminous Intensity	IF = 20mA	Iv	3000	4500		mcd
Wavelength	IF = 20mA	λ		625		nm
Viewing Angle	IF = 20mA	2 0 1/2		30		deg



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Typical Electro-Qptical Characteristics Curve:

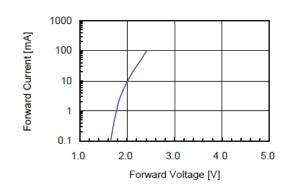


Fig 1. Forward Current vs. Forward Voltage

Fig 3. Forward Voltage vs. Temperature

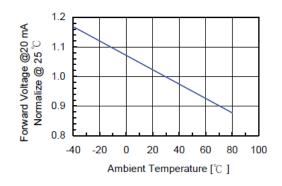


Fig 5. Relative Intensity vs. Wavelength

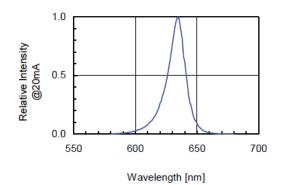


Fig 2. Relative Intensity vs. Forward Current

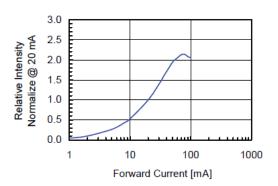
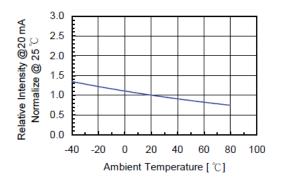


Fig 4. Relative Intensity vs. Temperature





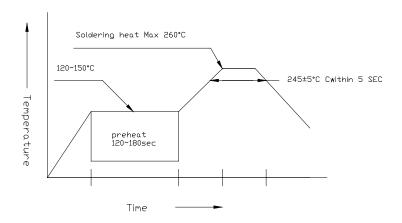
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Soldering:

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