



YETDA INDUSTRY LTD.

5mm Oval Red LED Lamps Q546INI1D-BK

5mm Oval with AlGaInP Super bright Dice ◦
Encapsulated with Red Diffused Color Package ◦
Long Leads ◦

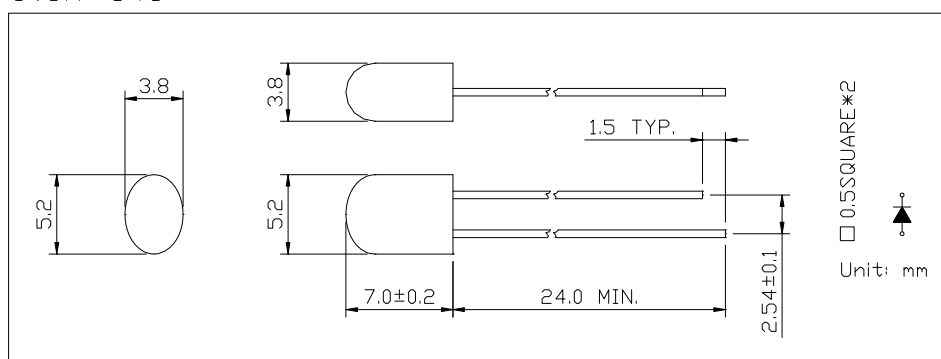
Absolute Maximum Ratings : (Ta=25°C)

Parameter	Symbol	Maximum Rating	Unit
Power Dissipation	PD	85	mw
Reverse Voltage	VR	5	V
Average Forward Current	LAF	20	mA
Peak Forward Current (Duty=0.1,10KHZ)	IPF	75	mA
Operatating Temperature Range	TOPR	-25°C to +85	°C
Storage Temperature Range	TSTG	-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	1.8	2.0	2.6	V
Reverse Current	V _R =5V	I _R			10	uA
Luminous Intensity	I _F = 20mA	I _v	500	650	800	mcd
Wavelength	I _F = 20mA	λ _p	620	625	630	
Viewing Angle	I _F = 20mA	2θ 1/2		100/40		deg

Item: 546



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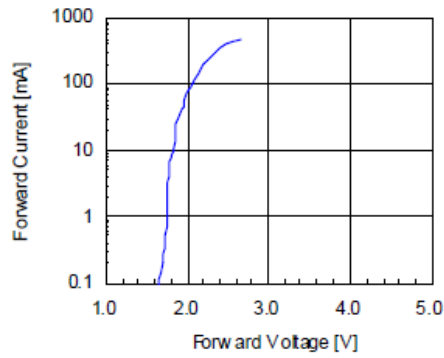


Fig 3. Forward Voltage vs. Temperature

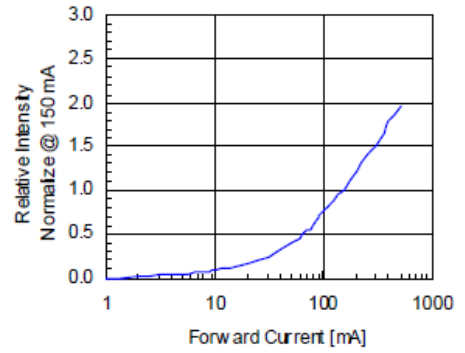


Fig 4. Relative Intensity vs. Temperature

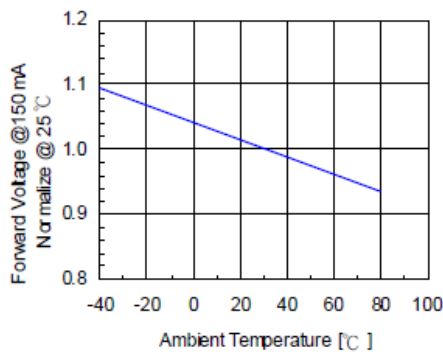
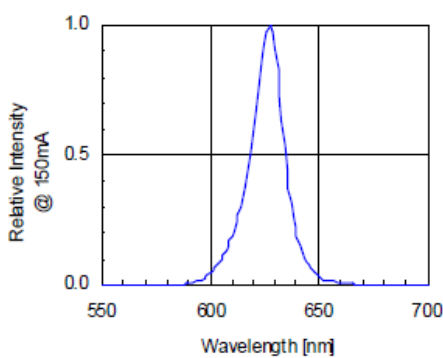
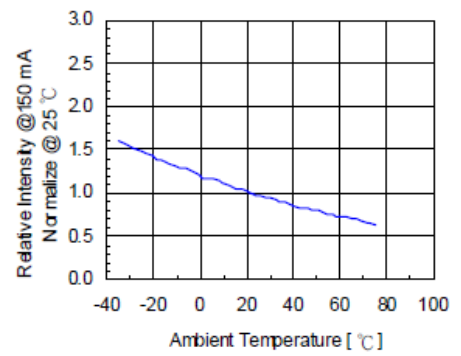


Fig 5. Relative Intensity vs. Wavelength





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•Soldering:

1. Manual of soldering

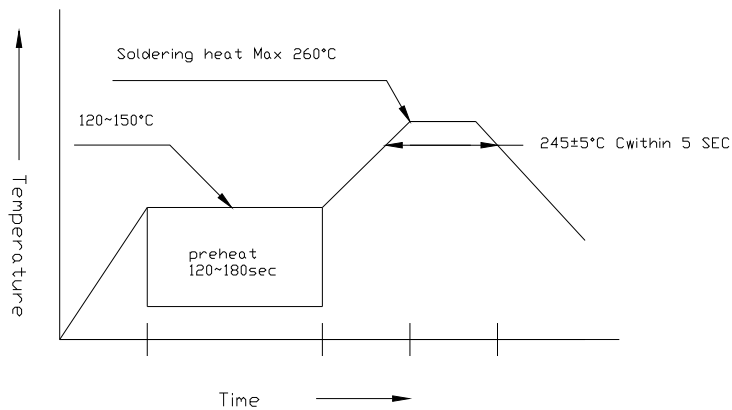
The temperature of the iron tip should not be higher than 260°C and

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)

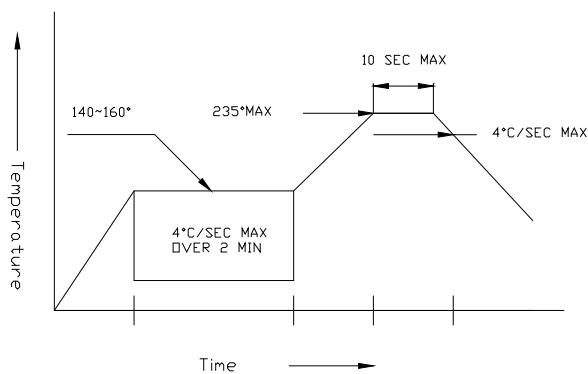


3. Reflow Soldering

Preheating: 140°C~160°C ±5°C, within 2 minutes.

Operation heating: 235°C (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