

YETDA INDUSTRY LTD.

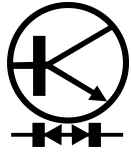
1206 SMD Infrared LED I150A4

- 1206 package with Infrared dice ◦
- Encapsulated with water clear package ◦

Parameter	Symbol	Value	Unit
Power dissipation	Pd	95	mW
Peak forward current Pulse width 100μs, duty cycle =1%	I _{fp}	1	A
Continuous forward current	I _f	50	mA
Reverse voltage	V _r	5	V
Operating temperature range	T _{op}	-40 ~+80	°C
Storage temperature range	T _{stg}	-40 ~+85	°C

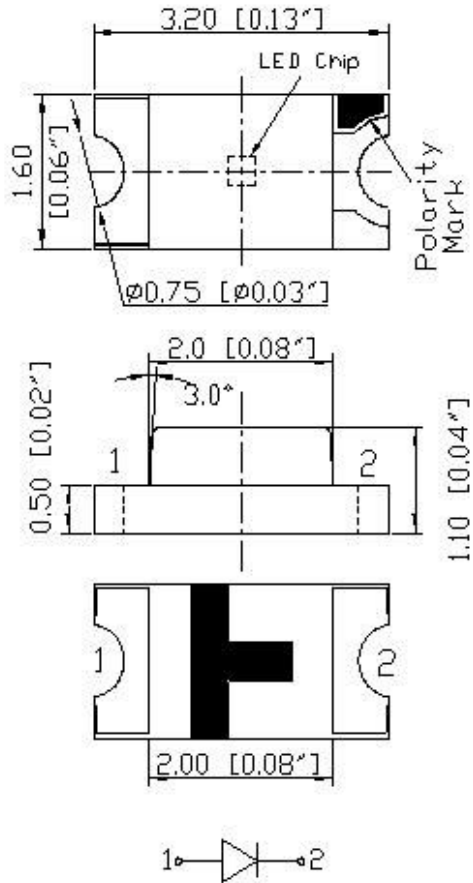
Electro-optical characteristics (T_A=25°C)

Parameter	Test Condition	Symbol	Value			Unit
Chip radiant intensity *1	I _f =20mA	I _e	0.1	0.8	--	mW/sr
Forward voltage	I _f =20mA	V _f	--	1.4	1.9	V
Reverse current	V _r =5V	I _r	--	--	10	μA
Peak wavelength	I _f =20mA	λ _p	--	850	--	nm
Spectral bandwidth	I _f =20mA	Δλ	--	50	--	nm
Viewing angle at 50% I _v	I _f =10mA	2θ 1/2	--	140	--	Deg

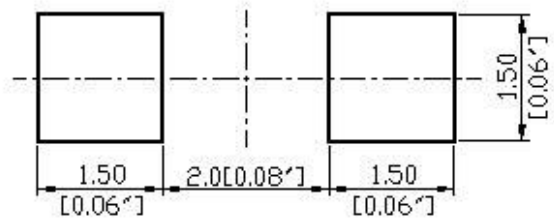


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Package

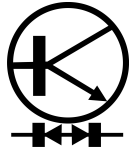


RECOMMEND PAD LAYOUT



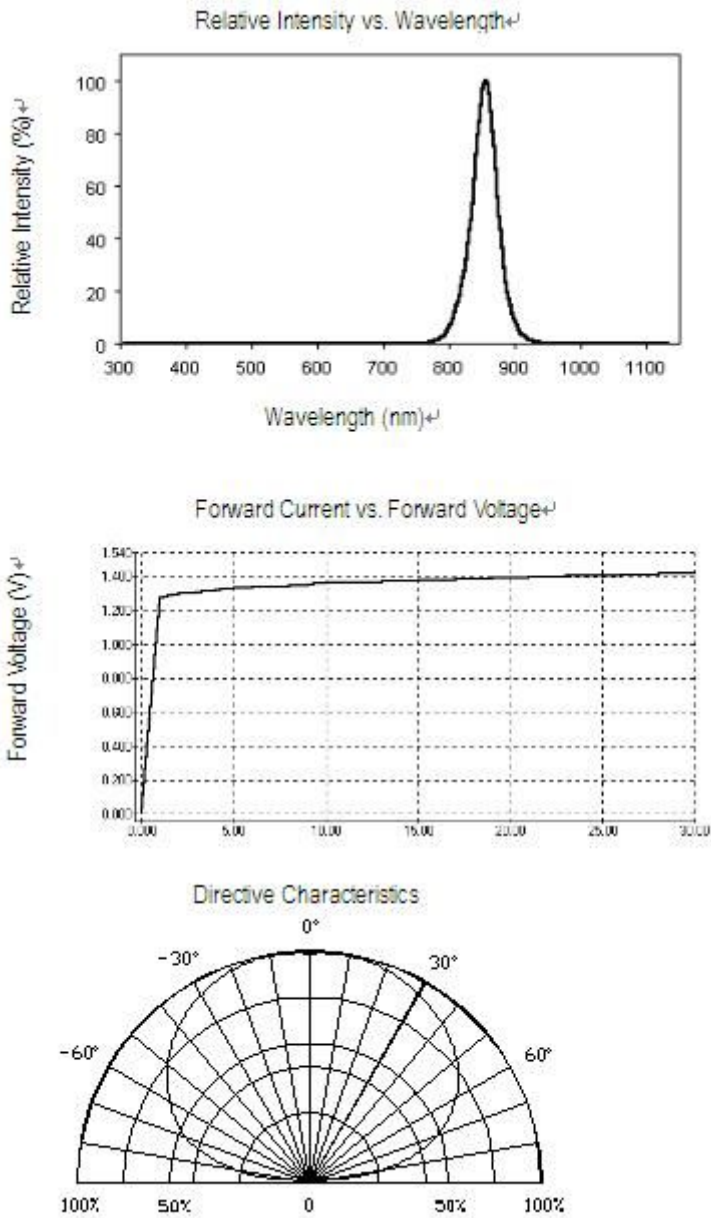
ITEM [Ⓢ]	MATERIALS [Ⓢ]
Resin (mold) [Ⓢ]	Epoxy [Ⓢ]
Lens color [Ⓢ]	Water transparent [Ⓢ]
Dice [Ⓢ]	AlGaAs/AlGaAs [Ⓢ]
Emitted color [Ⓢ]	Infrared [Ⓢ]

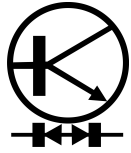
13APR5F



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Typical Electro-Optical Characteristics Curve:





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•Soldering:

1. Manual of soldering

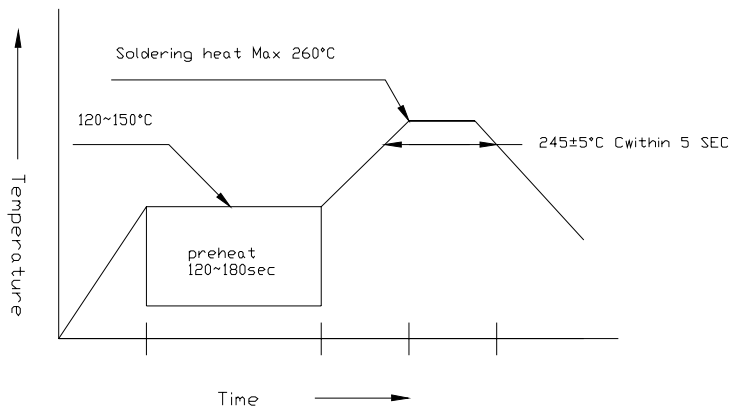
The temperature of the iron tip should not be higher than 260°C and

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)

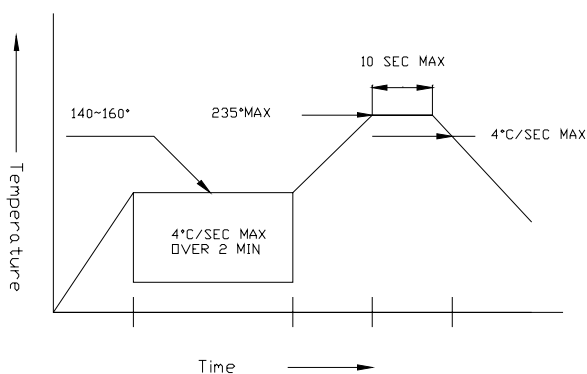


3. Reflow Soldering

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