YETDA INDUSTRY LTD.

Photodiode Led Lamp
P705VOD5D

With Pin Silicon photodiode Chips。

Encapsulated with Black color Package。

Long Leads。

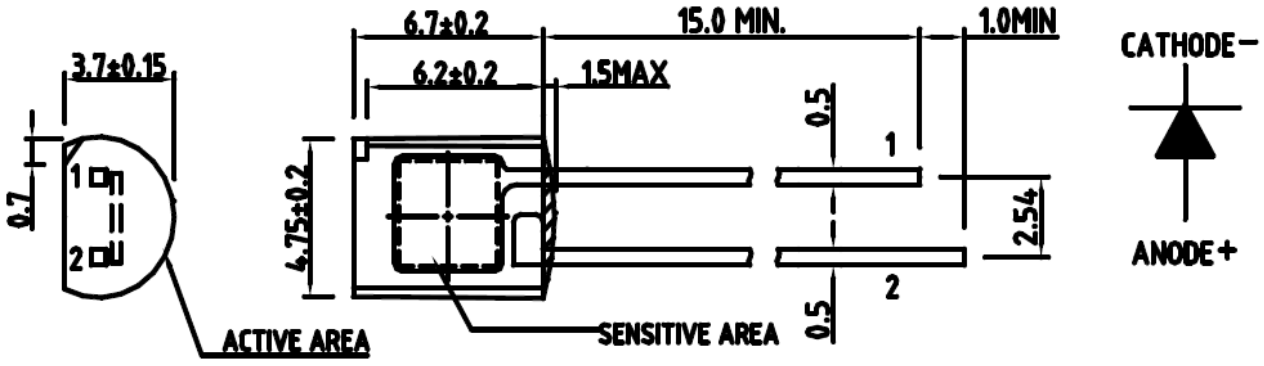
Absolute Maximum Ratings:

Parameter	Maximum Rating	Unit
Peak Forward Current	120	mA
Continuous Forward Current	30	mA
Operating Temperature Range	－20℃ to ＋75℃	
Storage Temperature Range	－40℃ to ＋100℃	
Lead Soldering Temperature	260℃ for 3 seconds 1.6mm(0.063 inch) from body	

Electro-Optical Characteristics （Ta = 25℃）

Characteristic	Symbol	Condition	Min.	Typ.	Max.	Unit
Reverse breakdown voltage	V（BR）R	IR=100μA ,Ee=0 mW/c ㎡	35			V
Reverse dark current	ID	VR=10V , Ee=0 mW/c ㎡			10	nA
Forward voltage	VF	IF=10mA , H=0	0.5		1.3	V
Reverse light current	IL	Ee=0.5mW/cm^2 , @940nm		40		μA
Total capacitance	Ct	VR＝5V, f＝1MHZ, Ee=0 mW/c ㎡		44		pF
Wavelength of the max. sensitivity	λp			940		nm
Viewing angle	2θ 1/2			140		deg.

Package



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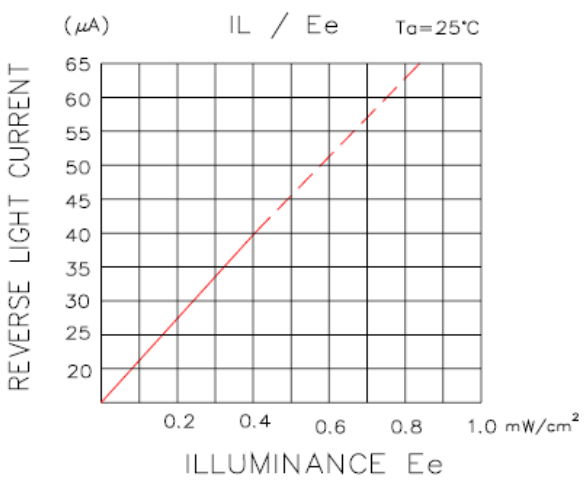


FIG: 1 REVERSE LIGHT CURRENT VS,ILLUMINANCE

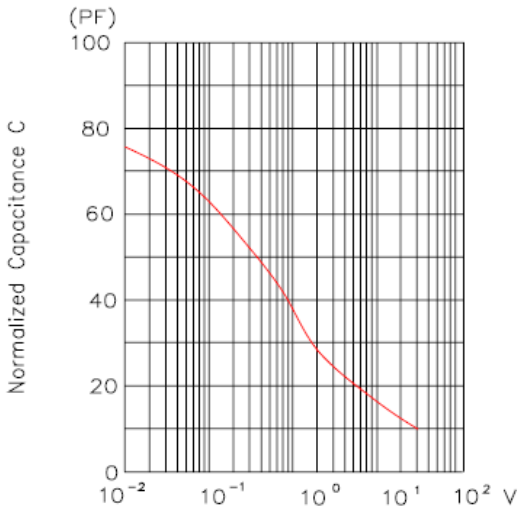


FIG: 2 CAPACITANCE VS,REVERSE VOLTAGE
F=1MHZ; Ee=0mW/cm²

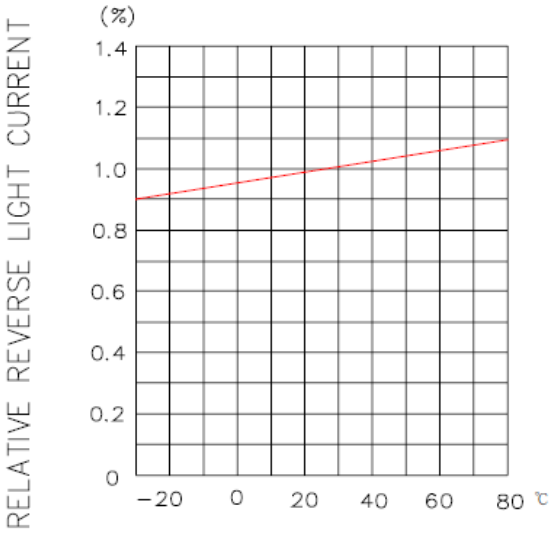


FIG: 3 RELATIVE REVERSE LIGHT CUTTENT VS.AMBIENT TEMPERTURE

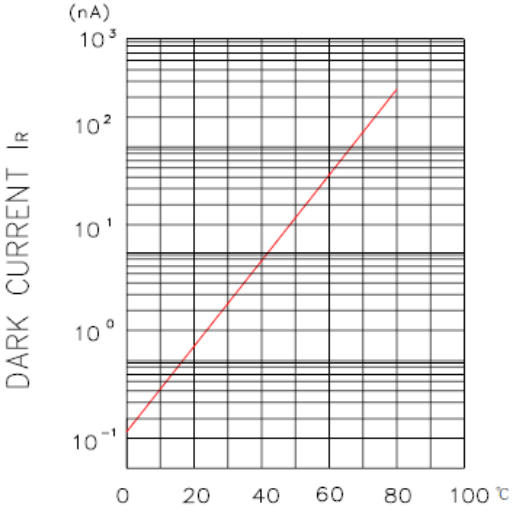
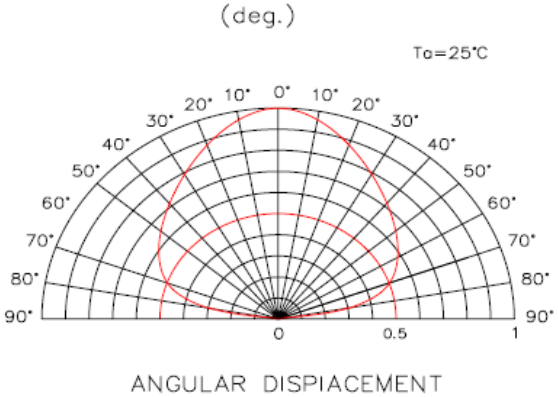
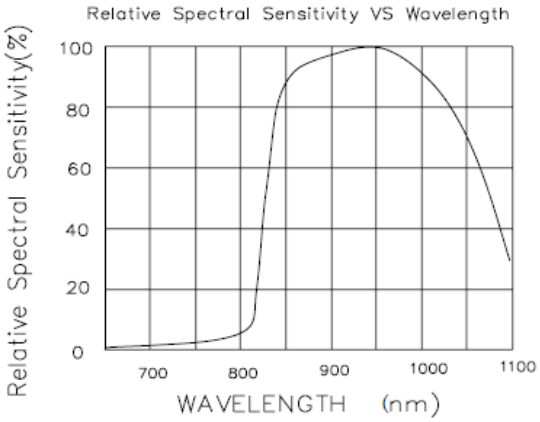


FIG: 4 DARK CURRENT VS,AMBIENT TEMPERTURE
VR=10V, Ee=0mW/cm²





•Soldering:

1. Manual of soldering

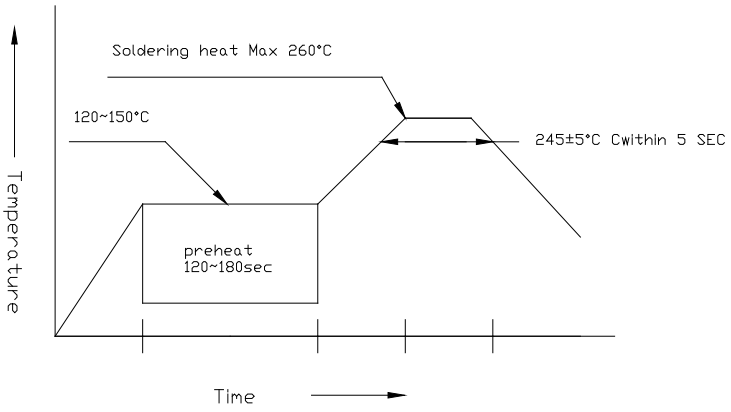
The temperature of the iron tip should not be higher than 260 ℃and

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)

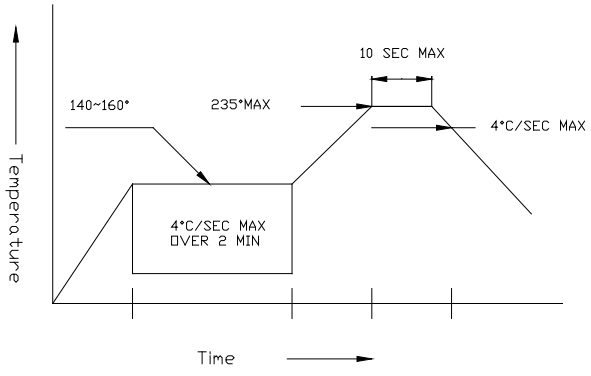


3. Reflow Soldering

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