



YETDA INDUSTRY LTD.

**PHOTOTRANSISTOR
P300M4G**

Absolute Maximum Ratings:

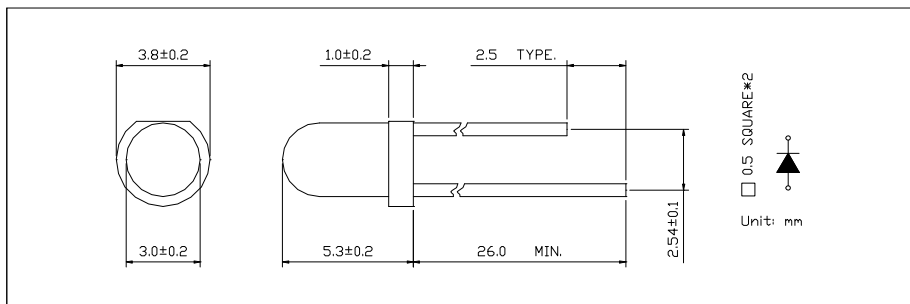
Parameter	Symbol	Maximum Rating	Unit
Operating Temperature Range	T _{opr}	-20°C to +75°C	°C
Storage Temperature Range	T _{stg}	-40°C to +100°C	°C
Power dissipation	P _d	100	mW
Lead Soldering Temperature		260°C for 3 seconds 1.6mm(0.063 inch) from body	

Electro-Optical Characteristics (T_a = 25°C)

Parameter	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Collector-Emitter breakdown voltage	I _c = 100 μA	BV _{CEO}	30		100	V
Emitter-collector breakdown voltage	I _E = 100 μA	BV _{ECO}	6.5			V
Collector dark current	V _{ce} = 20 V	I _{CEO}			100	nA
Light current	V _{ce} = 10 V E _e = 0.5 mW/cm ² λ _p = 940 nm	I _L	2.0	4.0		mA
Collector-Emitter saturation voltage	I _c = 2 mA I _B = 100 μA	V _{ce(sat)}			0.2	V
Radiant sensitivity area		A		0.186		mm ²
Peak sensitive wavelength		λ _p		850		nm
Rise/Fall time	V _{ce} =5V, I _c =1mA R _L = 1000 Ω	t _r /t _f		15/15		us
Current gain	V _{ce} =5V I _c = 2 mA	h _{FE}	800	~	1400	
Viewing angle		2θ 1/2		20		deg

Package

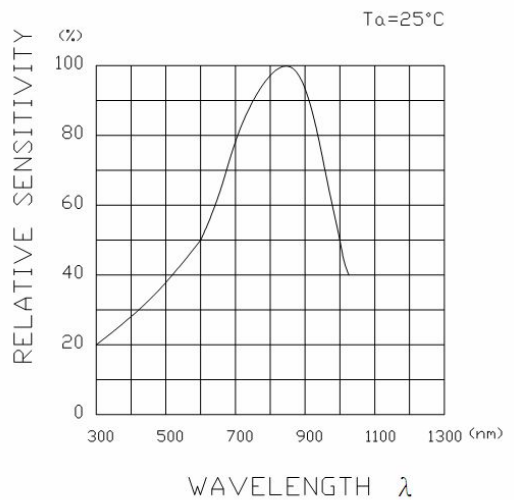
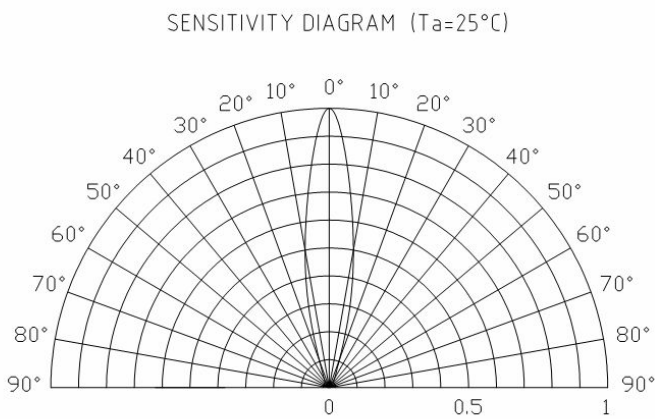
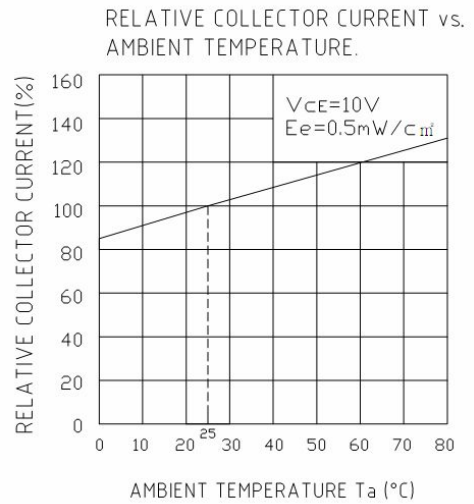
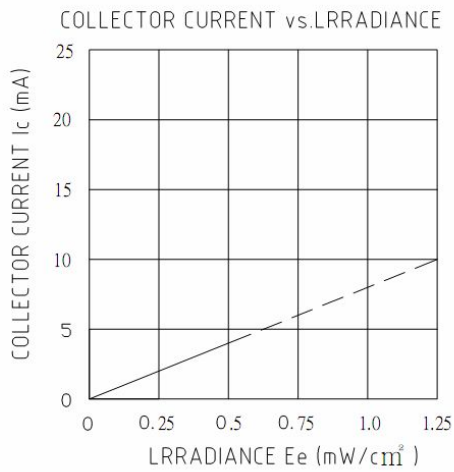
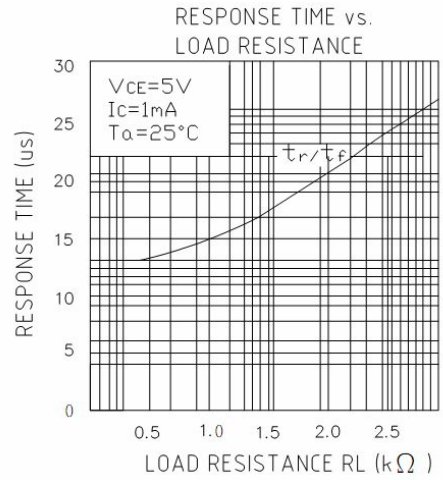
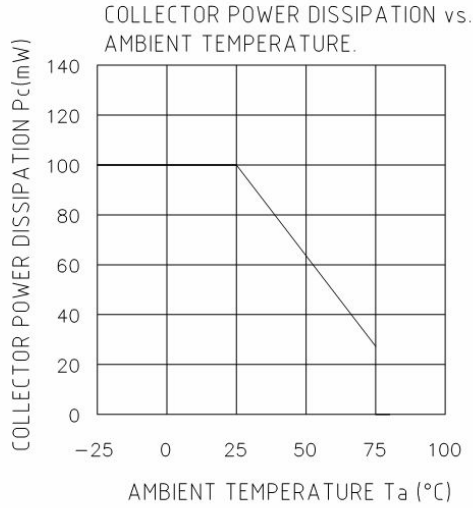
Item: 300





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Typical Electro-Optical Characteristics Curve:





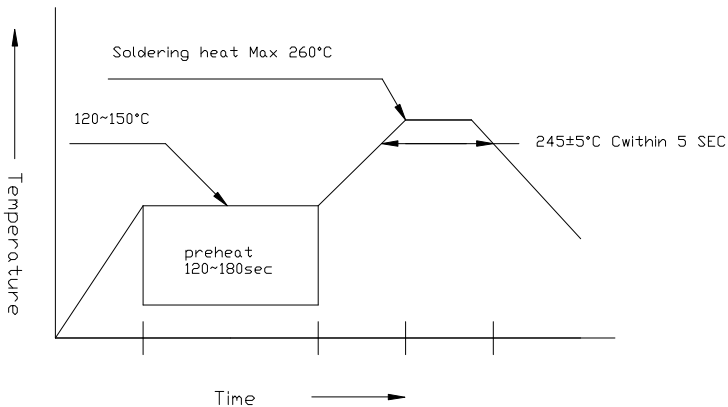
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and is to be observed

1. DIP soldering (Wave Soldering):

Preheating: $120^{\circ}\text{C} \sim 150^{\circ}\text{C}$ within 5 sec. 260°C (Max)

Gradual Cooling (Avoid quenching)

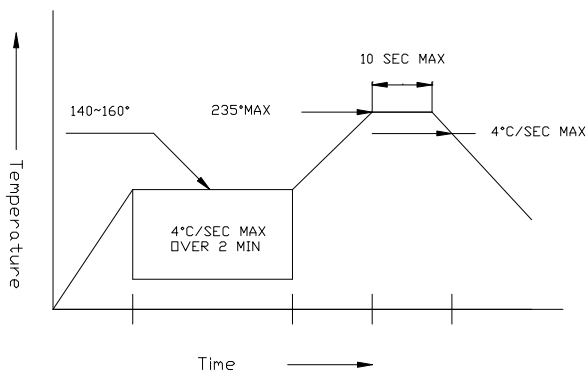


2. Reflow Soldering

Preheating: $140^{\circ}\text{C} \sim 160^{\circ}\text{C} \pm 5^{\circ}\text{C}$, 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