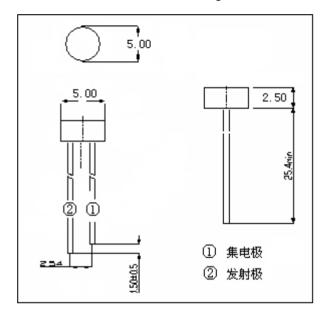
PT550 Series Product Specifications		Date	Page
		20110304	1/5
Duadwat Two San			
Product Type: XYC PT51850AC-A4			
Spec Number: A4ADCN			

PT550 Series	SN	Date	Page
Product Specifications	PT043-A	20110304	2/5

Dimensional Diagram



注:

- Default Unit (mm)
- ■Default Error ± 0.20mm.
- Resin Knob:1.5mm max.

Product Function:

- Substitute traditional CDS photoresistor; no Cadmium and Lead and confirm to EU ROHS criterion.
- Adapt to all kinds of light-control applications: night lamp, lawn lamp, solar power light,etc.
- Automatic adjustable background light: LCD, mobile phone, camera, security, monitor, etc.
- Control various light-control toys.
- Various light-control infrared surveillance equipments.

Product Characters:

- Good batch conformity.
- Small quiescent current.
- High response speed and stability.
- Nice apperance.

Custom Dimension:

- Provide different dimensions for installation convenience.
- Provide the most appropriate product of light/dark current(light\dark resistance) as needed.



深圳市鑫永诚光电科技有限公司 SHENZHEN XINGYONGCHEN OPTOELECTRONICS CO.LTD

PT550 Series	SN	Date	Page
Product Specifications	PT043-A	20110304	3/5

Max rated value: (Ta=25°C)

Parameter	Symbol	Rated value	Unit
Collector-Emitter Voltage	VCEO	30	V
Emitter-Collector Voltage	VECO	5	V
Power Consumption	PC	70	mW
Operating Tempearture	Topr	-25+85	°C
Storage Tempearture	Tstg	-40+100	°C
Welding Temperature (Time)	Tsol	260(<3s)	°C

光电特性:(Ta=25℃)

Parameter	Symbol	Test Condition	Minimum	Typical	Maximum	Unit
Peak value wavelength	λр	/		850		nm
wave width range	λ 0. 5	\	400		1100	nm
Collector-Emitter breakdown voltage	Bvceo	IC=100μA Ee=OmW/cm2	30			V
Emitter-Collector breakdown voltage	Bveco	IE=100μA Ee=OmW/cm2	5			V
Collector-Emitter saturation voltage	Vce (sat)	IC=2mA Ee=1mW/cm2			0.4	V
	IL(1)	VDD=5V Fv=10Lux	5	7	10	μА
Light current	IL(2)	VDD=5V Ev=30Lux	15	21	30	μА
	IL(3)	VDD=5V Ev=100L11x	50	70	100	μА
Dark current	Iceo	VDD=5V			0.1	μА
Open time	tr	VCE=5V		15		
Close time	tf	IC=1mA RL= $1000~\Omega$	15			us

Requirements and notes of testing environment:

Choose warm-color LED as testing light in the box without infrared disturbance.

Unify the direction when testing.

Don't touch pin with hands.

To improve the uniformity of products, please pay attention when installing:

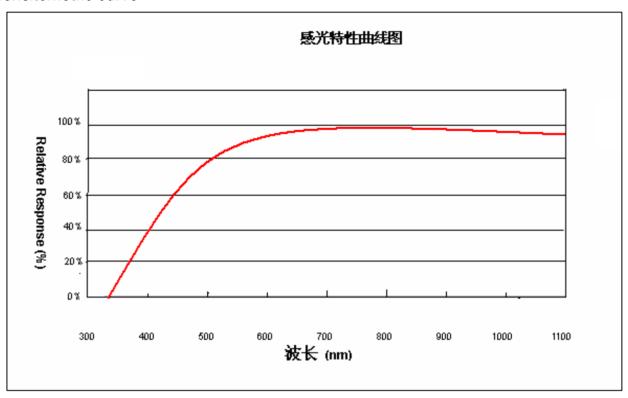
Use the same sleevings if needed, otherwise the different light leakage will affect uniformity.

Reduce the bias of installing location as much as possible.

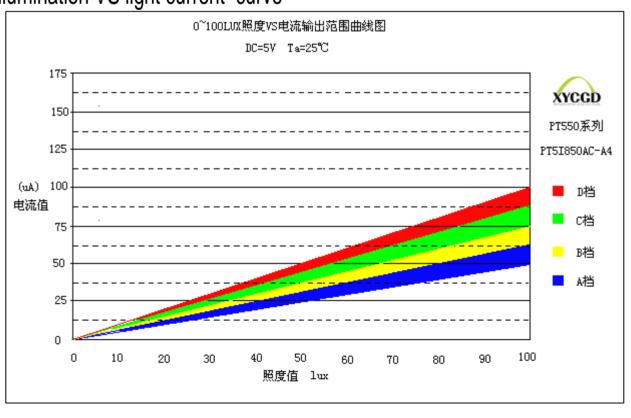
No sheltering the sensitive part.

PT550 Series	SN	Date	Page
Product Specifications	PT043-A	20110304	4/5

sensitometric curve

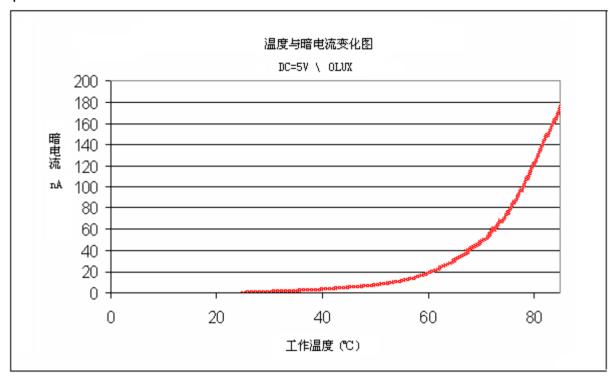


illumination VS light current curve



PT550 Series	SN	Date	Page
Product Specifications	PT043-A	20110304	5/5

Temperature vs Dark Current



Product Test Diagram

