

技术数据表



PIN
IC,
REACH ROHS



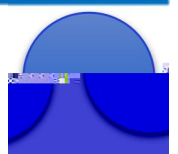
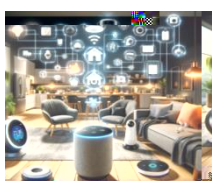
This product contains a high-speed and high sensitivity pin photo diode and Low power consumption, high gain Preamplifier Ic Adopting epoxy resin plastic encapsulated semi circular spherical packaging Dual shielding and anti-interference design for both inside and outside, This product has been certified by Reach and Rohs as an environmentally friendly product, Used as a receiver in infrared remote control systems

特点 () :

- * 1.27MM
- Small volume epoxy molding 1.27mm small foot pitch packaging
- * * * : 4.5*4.0*2.3*22mm
- Appearance dimension length * width * height* foot length : 4.5*4.0*2.3*22mm
- * 2.7-5.5V
- Wide working voltage, 2.7-5.5V
- *
- Low power consumption; Wide angle and long-distance reception
- *
- withstand environmental interference
- * TTL CMOS
- Output matching TTL, CMOS level, low level effective

应用领域 () :

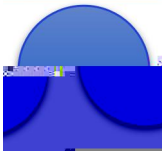
- *
- Household appliances (air conditioning, fans, heaters, humidifiers)
- * DVD DVD
- Multimedia audiovisual equipment (TV, DVD, set-top box, car mounted mobile DVD, hard drive player)
- *
- Computers and peripheral equipment, induction sanitary ware
- *
- Industrial Control (Instrumentation, Industrial Automation)
- *
- Remote control toys, communication equipment, photography equipment, office machines;
- *
- Financial Electronics, Automotive Electronics, Lighting



目 录

Catalogue

电性参数



自性参数

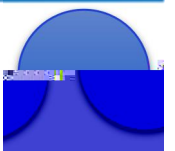
Supply Voltage	VDD	6.0	V
Operating ambient temperature	Topr	-20 °C ~ +85 °C	
Storage ambient temperature	Tstg	-40 °C ~ +125 °C	
Welding conditions	Tsol	Wave soldering manual welding	240°C 6s 300°C 3s

Working current	ICC		0.3	0.4	0.5	mA	VDD=5V
receive distance	L	0 °	10	15	-	M	/
	L	35 °	5	6	-	M	
	L	35 °	5	6	-	M	
Carrier Frequency	f _o		-	37.9	-	KHZ	/
BPF BPF width	f _{BW}		-	6	-	KHZ	/
Low level output	V _{oL}		-	-	250	mV	I _{sink} =2.0mA
High level output	V _{oh}		4.5	-	5.0	V	VCC=5V
Pulse width	T _{pwl}		400	600	800	us	burst wave Vin=500Vp-p
	T _{PWH}		400	640	800	us	burst wave Vin=50mVp-p
Minimum pulse width	T _{burst}		350	-	-	us	Vin=50mVp-p
Minimum interval	T _{burst gap}		450	-	-	us	Vin=50mVp-p
Encoding pause time	T _{pause}		45	-	-	us	Vin=50mVp-p

* CH3018-12U,

1M 40W

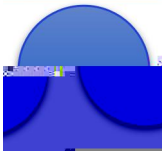
200 ± 50Lux.

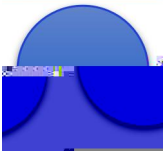


Recommended usage conditions

Supply Voltage	VDD	2.7	-	5.5	V
input frequency	FM	-	37.9	-	KHZ

Opera





接收分档

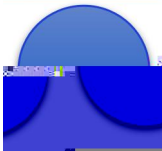
代码	最小值	最大值	单位	测试条件
L1	6	8	M	ICC=0.5mA
L2	10	15		
L3	15	20		

工作电压分档

代码	最小值	最大值	单位	测试条件
V1	2.5	5.5	V	ICC=0.5mA
V2	2.7	5.5		

工作电流分档

代码	最小值	最大值	单位	测试条件
I1	0.3	0.5	mA	VDD=5V
I2	0.4	0.7		



典型特性曲线

Test waveform

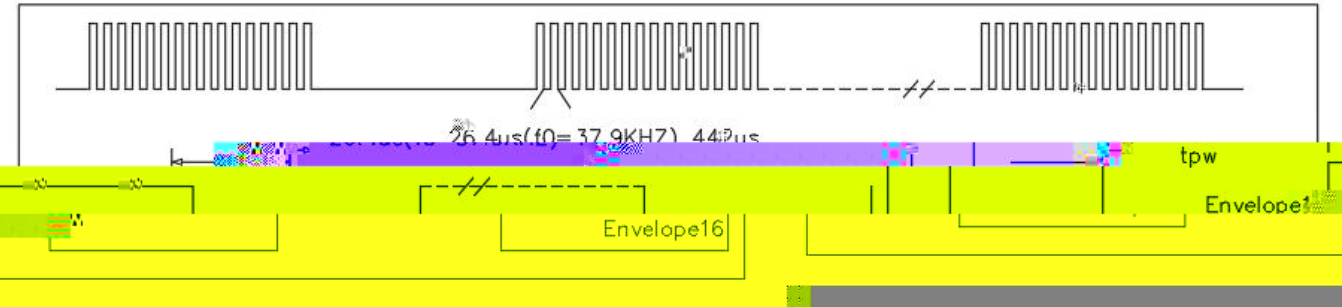


Figure 4. Typical Bandpass Curve

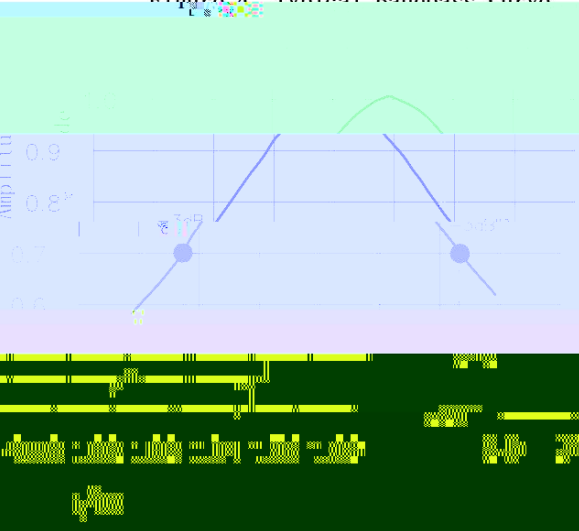
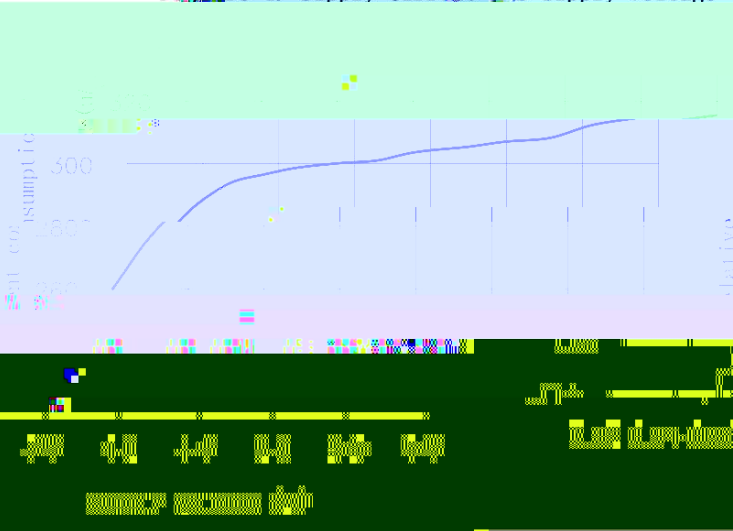


Figure 4. Supply Current vs supply voltage

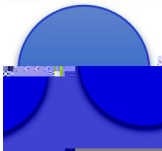


可靠性试验

Reliability Test Items And Conditions

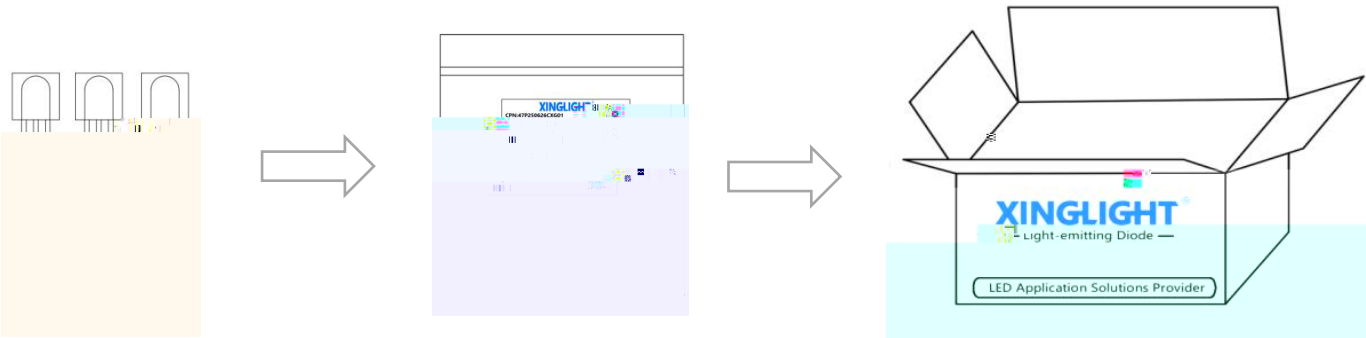
*

	260 ± 5	5	20	20
	100PF 1.5KΩ , 4KV ,		20	20
	10-50HZ/1min 1.5mm X Y Z/30min	30		



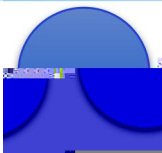
包装

- *
In Bags
- *
Moisture Proof and Anti-Static Foil Bag



标签说明 Label Expansion

		XINGLIGHT	
1. 产品型号/Part No.	2. 产品规格/Spec.	3. 产品照片/Product Photo	
4. 物料代码/Material Code	5. 产品规格/Spec.	6. 产品照片/Product Photo	
7. 产品规格/Spec.	8. 产品规格/Spec.	9. 产品照片/Product Photo	
10. 产品规格/Spec.	11. 产品规格/Spec.	12. 产品照片/Product Photo	
13. 产品规格/Spec.	14. 产品规格/Spec.	15. 产品照片/Product Photo	
16. 产品规格/Spec.	17. 产品规格/Spec.	18. 产品照片/Product Photo	
19. 产品规格/Spec.	20. 产品规格/Spec.	21. 产品照片/Product Photo	



使用注意事項 ()

1

LED

This Infrared receiver head can be used in some ordinary electronic equipment, such as office equipment, communication equipment, house decoration, if LED is used in some high reliability requirements, such as air transportation, traffic control and medical liao equipment, must refer to the information provided by sales.

2

85

70%

Storage environment of Infrared receiver head with temperature not exceeding 30 and relative humidity not exceeding 70%. It is recommended that Infrared receiver head be used in the original box for no more than three months. If longer storage time is required, put it in the drying box and add desiccant or filled with nitrogen.

3

Special care must be taken when cleaning colloids with chemicals, as some chemicals have damage to the colloidal surface and cause fading such as trichloroethylene, propylene, ketone, etc. It can be wiped and soaked with ethanol for no more than 3 minutes at room temperature.

1

2

It must be 2 mm from the colloid to bend the bracket.

2

Support forming must be done with fixtures or by a professional.

3

Support forming must be completed before welding.

4

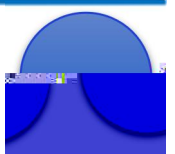
The pins and spacing are the same as on the circuit board.

5

LED

PCB

Welding must be performed at normal temperature and when Infrared receiver head is normally welded to the PCB plate, avoid applying mechanical pressure at LED pins at a minimum.



使用注意事項 ()

2mm

When welding, welding must be conducted below 2mm of colloid bottom. When welding, try to avoid soaking Infrared receiver head colloid. After welding, avoid adding external force on the pin or shaking Infrared receiver head colloid.



HBM<1000V

InGaN

<100V

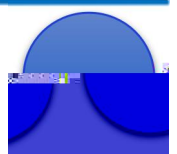
High increase of static electricity and current will damage Infrared receiver head. Use antistatic devices such as protective belts and gloves. Note: human discharge mode HBM <1000V; machine discharge mode <100V.

7

Sensitivity: The same product can be used on different devices, The actual data measured in different environments also varies. In different environments, Attention should be paid to the interference of the surrounding environment, Interference of light and different light intensities, Has an impact on the sensitivity of the infrared receiver head.

8

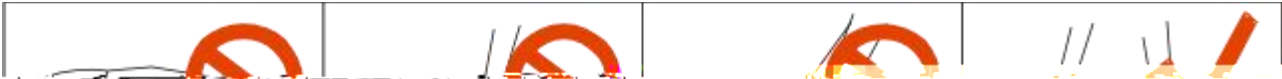
The infrared receiver head should have a filter to filter out white light. Because, the strong light direct infrared receiving head. Electromagnetic interference. Equipped with stroboscopic light source and strong infrared heat source. Under equal environmental conditions Infrared receiver head will affect reception.



使用注意事項 ()

9、其他事項：

Do not apply unnecessary external force to the pins of the infrared receiver head Pay attention to protecting the receiving surface of the infrared receiver head Staining can affect reception function



If there are any modifications to the specification sheet, no further notice will be given

