

# 夜视监控红外850光磊14MIL角度75度5MM发射二极管

产品名称	夜视监控红外850光磊14MIL角度75度5MM发射二极管
公司名称	深圳市兴辉光电有限公司
价格	面议
规格参数	产品类型: 是否进口:是 品牌:台湾管磊芯片
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## 产品详情

features

?high reliability

?high radiant intensity

?peak wavelength  $\lambda_p=850\text{nm}$

?2.54mmlead spacing

?low forward voltage

?the product itself will remain within rohs compliant version.

descriptions

?xinghui ' s infrared emitting diode is a high intensity diode , molded in a water clear plastic package.

?the device is spectrally matched with phototransistor , photodiode and infrared receiver module.

applications

?free air transmission system

?opto electronic switch

?infrared applied system

?smoke detector

device selection guide

led part no.	chip material	lens color
tkirp5113c4	gaalas	water clear

package dimensions

absolute maximum ratings (ta=25 )

parameter	symbol	rating
continuous forward current	if	80
peak forward current	ifp	1
reverse voltage	vr	5
operating temperature	topr	-40 ~ +85
storage temperature	tstg	-40 ~ +85
soldering temperature	tsol	260
power dissipation at25 free air temperature	pd	150

notes:\*1:ifpconditions--pulse width 100 μ s and duty 1%.

\*2:soldering time 5 seconds.

electro-optical characteristics (ta=25 )

parameter	symbol	condition	min	typ	max
radiant intensity	ie	if=20ma	--	14	--
radiant intensity	ie	if=80ma	--	60	--
radiant intensity	ie	if=1a	--	950	--
		pulse width 100 μ s ,duty 1%			
peak wavelength	p	if=20ma	--	850	--
spectral bandwidth		if=20ma	--	45	--
forward	vf	if=20ma		1.45	1.60
forward	vf	if=80ma	--	1.6	--
forward voltage	vf	if=1a	--	4.1	5.25
		pulse width 100 μ s ,duty 1%			
reverse current	ir	vr=5v	--	--	10
view angle	2 1/2	if=20ma	--	45	--

1000pcs/bag

## instructions

### 1. lead forming

- a) during lead formation, the leads should be bent at a point at least 3mm from the base of the epoxy bulb.
- b) lead forming should be done before soldering.
- c) avoid stressing the led package during leads forming. the stress to the base may damage the led ' s characteristics or it may break the leds.
- d) cut the led leadframes at room temperature. cutting the leadframes at high temperatures may cause failure of the leds.
- e) when mounting the leds onto a pcb, the pcb holes must be aligned exactly with the lead position of the led. if the leds are mounted with stress at the leads, it causes deterioration of the epoxy resin and this will degrade the leds.

### 2. storage

- a) the leds should be stored at 30 ° c or less and 70%rh or less after being shipped from xinghui and the storage life limits are 3 months. if the leds are stored for 3 months or more, they can be stored for a year in a sealed container with a nitrogen atmosphere and moisture absorbent material.
- b) please avoid rapid transitions in ambient temperature, especially, in high humidity environments where condensation can occur.

### 3. soldering

- a) careful attention should be paid during soldering. when soldering, leave more than 3mm from solder joint to epoxy bulb, and soldering beyond the base of the tie bar is recommended.
- b) recommended soldering conditions:

hand soldering		dip soldering	
temp. at tip of iron	300 max. (60w max.)	preheat temp.	100 max. (60 sec max.)
soldering time	3 sec max.	bathtemp. & time	260 max., 5 sec max
distance	3mmmin.(from solder joint to epoxy bulb)	distance	3mmmin. (from solder joint to

## notes

1. above specification may be changed without notice, xinghui will reserve authority on material change for above specification.
2. when using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. xinghui assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
3. these specification sheets include materials protected under copyright of xinghui company. please don ' t reproduce or cause anyone to reproduce them without xinghui ' s consent.

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