

## 0805 infrared chip led

SMD package 0805 (2012) smd chip led infrared 850nm or 940nm, remote control smd leds.

### Features

Small double-end package

Low forward voltage

Good spectral matching to Si photo detector

Pb free

The product itself will remain within RoHS compliant version.

### Descriptions

AL-S0805IRC is an infrared emitting diode in miniature SMD package which is molded in a water clear plastic with flat top view lens.

The device is spectrally matched with silicon photodiode and phototransistor.

## PRODUCTION PROCESS



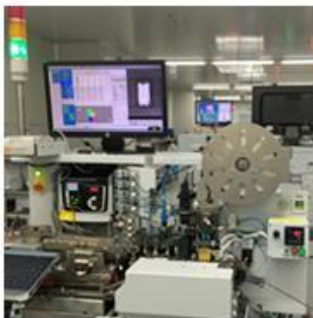
Die Bond



Wire Solder



Compression Moulding



Taping



Spectrometer



Slicing

## Applications

PCB mounted infrared sensor

Infrared emitting for miniature light barrier

Floppy disk drive

Optoelectronic switch

Smoke detector

## APPLICATIONS



## RELATED PRODUCTS



3mm IR LED



5mm IR LED



SMD 0603 IR LED



SMD 0805 IR LED



SMD 1206 IR LED



SMD 3528 IR LED



SMD 3535 IR LED



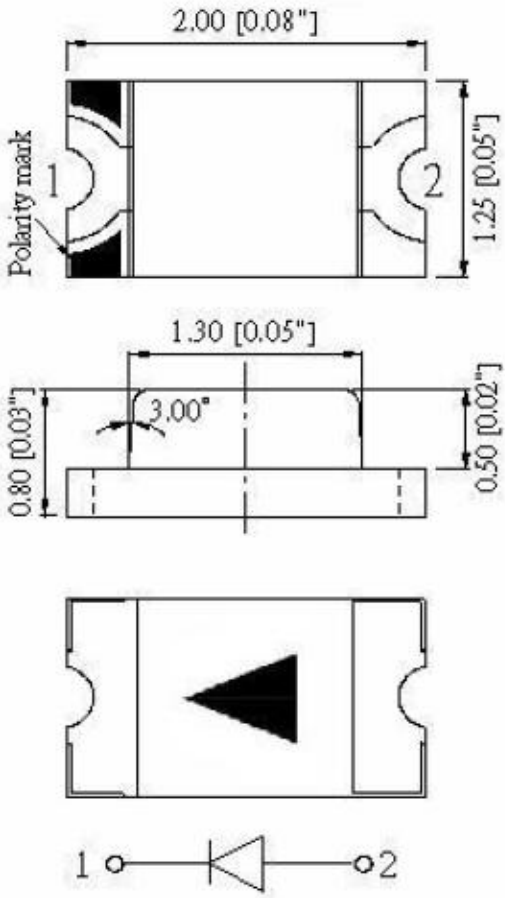
SMD 4040 IR LED

### Device Selection Guide

Part Category	Chip Material	Lens Color
IR	GaAlAs	Water Clear

**0805 infrared chip led 940nm technical data sheet**

# Package Dimensions



Unit: (mm)

Tolerance:  $\pm 0.1\text{mm}$

■ Absolute Maximum Ratings at Ta=25°C:

Parameter	Symbol	Maximum	Unit
Power Dissipation	Pd	75	mW
Peak Forward Current (Duty 1/10 @1KHz)	IFP	200	mA
Forward Current	IF	50	mA
Reverse Voltage	VR	5	V
Operating Temperature Range	Topr	-25°C to + 80°C	
Storage Temperature Range	Tstg	-30°C to + 85°C	
Lead Soldering Temperature [2.0mm from body]	Tsol	Preheating: 140°C~160°C±5°C, within 2 minutes. Operation heating:260°C(Max) within 10 seconds.(Max) Gradual Cooling (Avoid quenching).	

■ Electrical/Optical Characteristics at Ta=25°C:

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Radiant Output Power	PO	IF=20mA	2.0	6.0	—	mW
Peak Wavelength	λp	IF=20mA	—	940	—	nm
Forward Voltage	VF	IF=20mA	1.0	—	1.5	V
Viewing Angle	2θ1/2	IF=20mA	—	120	—	deg
Spectrum Line Halfwidth	Δλ	IF=20mA	—	50	—	nm
Reverse Current	IR	VR=5V	—	—	10	uA

**Notes:**

1. Tolerance of Luminous Intensity ±15%
2. Tolerance of Forward Voltage ±0.1V

Note: pls contact us for free samples and datasheets of 0805 infrared chip led. Our R&D department can make samples freely as your request, pls tell us your requirements then we can choose the best-match samples for your testing.

**Package**

- 4000 pieces in a reel
- 1 reel in an anti-static bag
- 10 bags in an inner box
- 4 inner boxes in a carton



### Company Information

Dongguan Zhiding Electronics Technology Co., LTD is a high-tech enterprise specialized in manufacturing, designing and selling high quality LED lighting and LED related products. Zhaoqing Factory has more than 1000 employees, including more than 80 technicians focused on research and development. The factory has fully automatic production machines, the international general test equipments, and excellent equipment reliability experiment. From materials in storage, to process design, to product manufacture, each production process is in strict operation accordance with the ISO9001 quality assurance system. Besides our existing molded products, We also can provide customized products.



We have advanced testing equipment, can be "normal temperature continuous light lifetest", "high temperature and high humidity cycle test", "cold and hot shock cycle test" and "high and low temperature storage test", "high temperature continuous light test", "salt spray test" and reliability test, for all kinds of product reliability test of periodic on a regular basis, provides the high quality for our product quality assurance.



# PRODUCTION ENVIRONMENT



## WHY CHOOSE US



Customized design is available, OEM and ODM are welcomed.



We have best production capability, best quality control, best service.



Reply your inquiry in 24 working hours.



Customized design is available, OEM and ODM are welcomed

## CERTIFICATION



### Our Service

Your inquiry for our products or prices will be replied in 24 hours.

We offer the OEM and ODM service.

Protection of your sales area, ideas of design and all your private information.

We guarantee both quality and service regardless of your big or small order.

Advanced equipment and good materials: ASM machine, good chips and epoxy resin.

Data sheet and usage guide are available

Two years guarantee

Cheapest shipping cost

## How To Process



### Sales Representative

Elsa Xiao

Oversea Sales Manager

Dongguan Zhiding Electronics Technology CO., LTD

Add: No. 8, Yinling street, XiaQiao, Dongcheng Dist., Dongguan, Guangdong, China

Web: <http://www.allightled.com/>

E-mail: [sales@zhidingled.com](mailto:sales@zhidingled.com)

Skype: elsa.xiao0418

Mobile/Whatsapp: 86-13412570091

Tel: 86-769-22665151

Fax: 86-769-22665155

**WELCOME TO CONTACT US>>>>WWW.ZHIDINGLED.COM**



Oversea Sales Manager

Elsa Xiao

E-mail:[sales@zhidingled.com](mailto:sales@zhidingled.com)

Skype: elsa.xiao0418

Mobile: 86-13412570091

WhatsApp: 86-13412570091

Tel: 86-769-22665151

Fax:86-769-22665155