

# ZIR-2012C-10A-Z3

## **0805** Package Infrared Chip LED

### Descriptions

ZIR-2012C-10A-Z3 is an infrared emitting diode inminiature SMD package which is molded in awater clear plastic with flat top view lens. The device is spectrally matched with siliconphotodiode and phototransistor.

#### Features

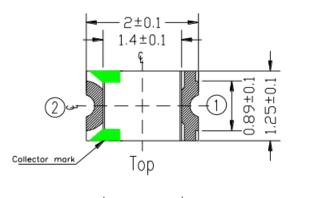
- Small double-end package
- Low forward voltage
- Good spectral matching to Si photo detector
- Pb free
- The product itself will remain within RoHS compliant version.
- Compliance with EU REACH
- Compliance Halogen Free (Br<900 ppm,Cl<900 ppm,Br+Cl<1500 ppm)

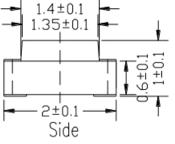
### Applications

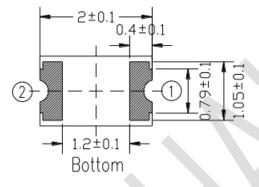
- PCB mounted infrared sensor
- Infrared emitting for miniature light barrier
- Floppy disk drive
- Optoelectronic switch
- Smoke detector

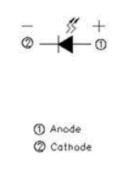


### **Package Dimensions**

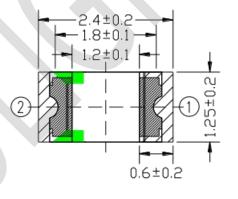








Recommend Sodering Pad



- Notes: 1.All dimensions are in millimeters
  - 2. Tolerances unless dimensions ±0.1mm
  - 3.Suggested pad dimension is just for reference only
    - Please modify the pad dimension based on individual need



## Absolute Maximum Ratings (Ta=25°C)

		,		
Parameter	Symbol	Rating	Units	
Continuous Forward Current	I <sub>F</sub>	65	mA	
Reverse Voltage	VR	5	V	
Operating Temperature	T <sub>opr</sub>	-40 ~ +85	°C	
Storage Temperature	T <sub>stg</sub>	-40 ~ +85	°C	
Soldering Temperature *1	T <sub>sol</sub>	260	°C	
Power Dissipation at(or below) 25°C Free Air Temperature	P <sub>d</sub>	130	mW	

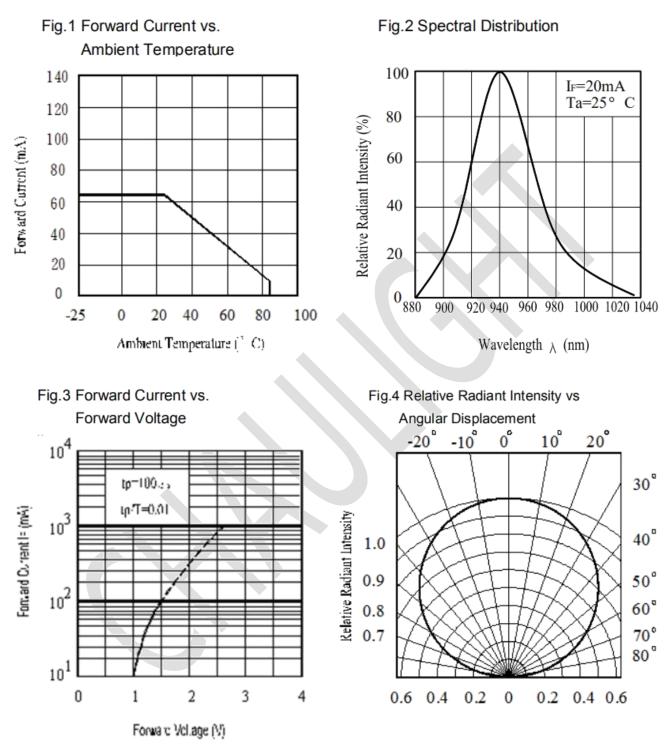
**Notes:** \*1 Soldering time  $\leq$  5 seconds.

#### **Electro-Optical Characteristics (Ta=25°C)**

Parameter	Symbol	Condition	Min.	Тур.	Max.	Units
Radiant Intensity	le	I <sub>F</sub> =20mA	0.2	0.8		mW/sr
Peak Wavelength	λр	I <sub>F</sub> =20mA	ł	940		nm
Spectral Bandwidth	Δλ	I <sub>F</sub> =20mA		45		nm
Forward Voltage	VF	I <sub>F</sub> =20mA	-	1.2	1.5	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V		-	10	μA
View Angle	201/2	I <sub>F</sub> =20mA		120		deg

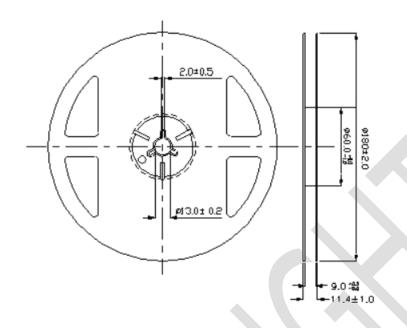


#### **Typical Electro-Optical Characteristics Curves**



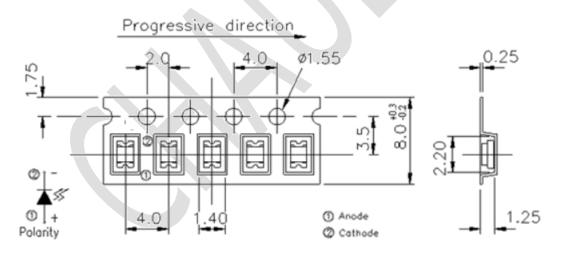


## **Package Dimensions**



Note: The tolerances unless mentioned are ±0.1mm, Unit: mm

Carrier Taping Dimensions: (Quantity: 3000PCS/Reel)



Note: The tolerances unless mentioned are ±0.1mm, Unit: mm

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