

#### **DATASHEET**

# Technical Data Sheet High Power Infrared LED

#### IR-S06-P120/L741-P03/TR

#### **Features**

- · Small package with high efficiency
- · Peak wavelength λp =940 nm
- · Soldering methods: SMT
- · Pb free
- · Compliance with EU REACH
- Compliance Halogen Free(Br < 900ppm, Cl < 900ppm, Br+Cl < 1500ppm)</li>
- The product itself will remain within RoHS compliant version.

## **Description**

- IR-S06-P120/L741-P03/TR series is an infrared emitting diode in miniature SMD package which is molded in a water clear epoxy with flat top view lens.
- The device is spectrally matched with silicon photo diode, phototransistor.

# **Applications**

- CCD Camera
- Infrared applied system

#### **Device Selection Guide**

LED Part No.	Chip Material	Lens Color
IR-S06-P120/L741-P03/TR	GaAlAs	Water clear





# **Absolute Maximum Ratings (T<sub>A</sub>=25°C)**

Parameter	Symbol	Symbol Rating	
Continuous Forward Current	l <sub>F</sub>	1000	mA
Reverse Voltage	$V_{R}$	5	V
Operating Temperature	$T_{opr}$	-40 ~ +100	°C
Storage Temperature	$T_{stg}$	-40 ~ +100	°C
Junction temperature	perature T <sub>j</sub>		°C
Power Dissipation @I <sub>F</sub> =700mA	Pd	3	W

#### Notes:

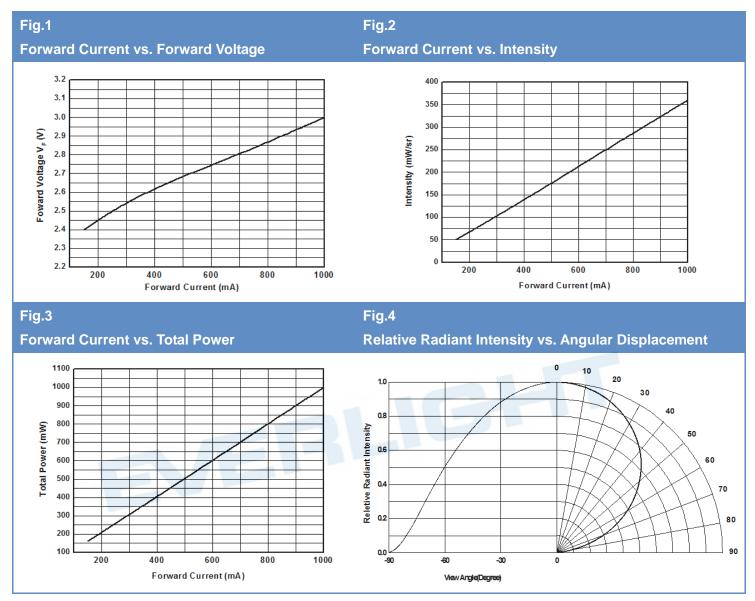
We suggest that customer should add the heat sink with IR-S06-P120/L741-P03/TR to exclude the heat.

# Electro-Optical Characteristics (T<sub>A</sub>=25 °C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Total Radiated Power			355		mW	I <sub>F</sub> =350 mA
	Ро		700			I <sub>F</sub> =700 mA
			1000			I <sub>F</sub> =1 A
Radiant Intensity	le -	T-K	120		mW/sr	I <sub>F</sub> =350 mA
			250			I <sub>F</sub> =700 mA
			360		_	I <sub>F</sub> =1 A
Peak Wavelength	$\lambda_{P}$		940		nm	I <sub>F</sub> =350 mA
Spectral Bandwidth	Δλ		25		nm	I <sub>F</sub> =350 mA
Forward Voltage			2.6		. V	I <sub>F</sub> =350 mA
	$V_{F}$		2.8			I <sub>F</sub> =700 mA
	•		2.9			I <sub>F</sub> =1 A
Reverse Current	I <sub>R</sub>			10	μΑ	V <sub>R</sub> =5 V
View Angle	2θ <sub>1/2</sub>		120		deg	I <sub>F</sub> =20 mA

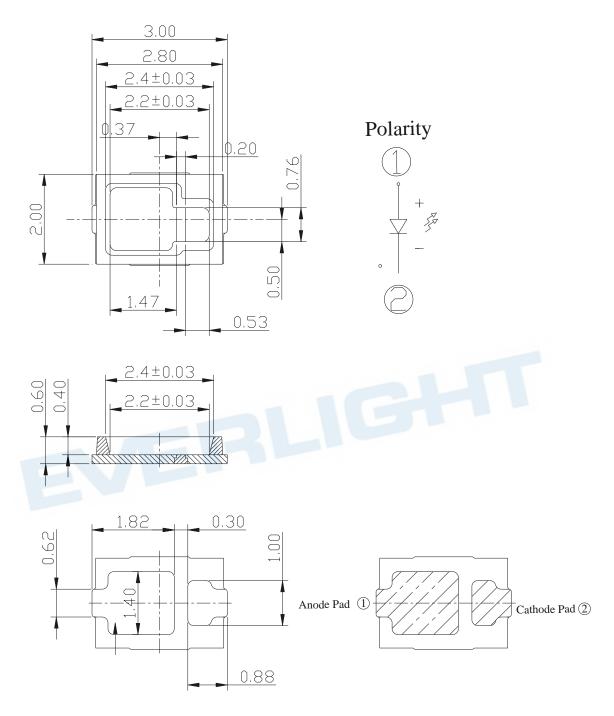


# **Typical Electro-Optical Characteristics Curves**





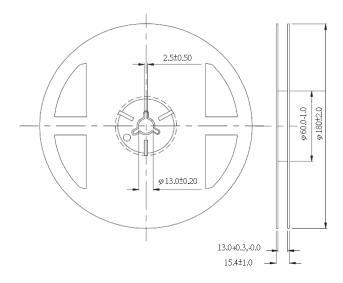
# **Package Dimension**



- 1. Dimensions are in millimeters.
- 2. Tolerances unless mentioned are ± 0.1mm.
- 3. Do not handle the device by the lens. Incorrect force applied to the lens may lead to the failure of devices.



# **Package Dimensions**

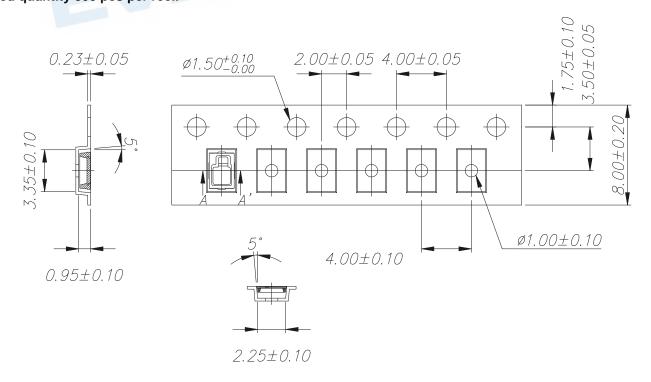


#### Note:

- 1. Dimensions are in millimeters
- 2. The tolerances unless mentioned is ±0.1mm

# **Carrier Tape Dimensions:**

Loaded quantity 800 pcs per reel.

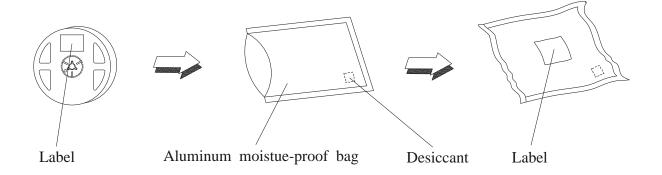


Note:



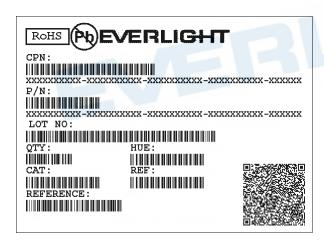
- 1. Dimensions are in millimeters
- 2. The tolerances unless mentioned is ±0.1mm

#### **Moisture Resistant Packaging**



#### **Moisture Resistant Packing Materials**

### **Label Form Specification**



· CPN: Customer's Product Number

·P/N: Product Number

·QTY: Packing Quantity

·CAT: Luminous Intensity Rank ·HUE: Dom. Wavelength Rank ·REF: Forward Voltage Rank

·LOT No: Lot Number

·X: Month

·Reference: Identify Label Number

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#### **DISCLAIMER**

- EVERLIGHT reserves the right(s) on the adjustment of product material mix for the specification.
- 2. The product meets EVERLIGHT published specification for a period of twelve (12) months from date of shipment.
- 3. The graphs shown in this datasheet are representing typical data only and do not show guaranteed values.
- 4. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from the use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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# 单击下面可查看定价,库存,交付和生命周期等信息

>>Everlight(亿光)