Datasheet

Item no. 1567235

V1_0917_01_en

IR diode

Features

- High radiant intensity
- Peak wavelength= λ_p=940nm
- View angle 30°
- High reliability
- 2.54mm Lead spacing
- Low forward voltage
- Pb free
- The product itself will remain within RoHS compliant version.

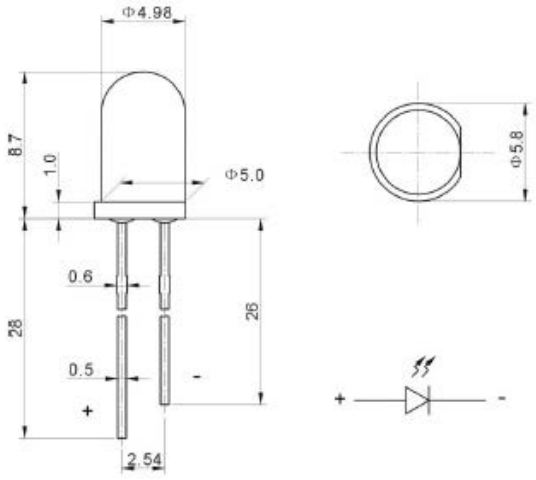
Descriptions

- Infrared Emitting Diode（OS-5038F）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 ◆ Optoelectronic switch ◆ Floppy disk drive
- Infrared applied system ◆ Smoke detector

Package Dimension:



NOTE:TOLERANCE±0.5mm

Part NO.	Material	Lens Color
OS-5038F	AlGaAs	Water Clear

Notes:

1. All dimensions are in millimeters.
2. Tolerances unless dimensions ±0.25mm.

Unit: mm

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Absolute Maximum Ratings at Ta=25℃

Parameter	Symbol	Rating	Unit
Continuous Forward Current	I_F	100	mA
Power Dissipation at (or below) 25℃ Free Air Temperature	Pd	150	mW
Transient PeakCurrent (Pulse width=100 μs, Duty cycle=1%)	I_{FP}	1000	mA
Reverse Voltage	V_R	5	V
Operating Temperature	Topr	-40～+85	℃
Storage Temperature*	Tstg	-40～+85	℃
Soldering Temperature	Tsol	260	℃

* 4mm from mold body less than 5 seconds

Electrical Optical Characteristics:

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	V_F		1.35	1.50	V	I_F=50mA
Radiant Intensity	Ie	60	76		mW/sr	I_F=50mA
Peak Wavelength	λ_P		940		nm	I_F=50mA
Reverse Current	I_R			10	μA	V_R=5V
Viewing Angle	θ		30		deg	I_F=50mA

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