

Datasheet

Item no. 1572286

V1_0917_01_en

IR diode

Features

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

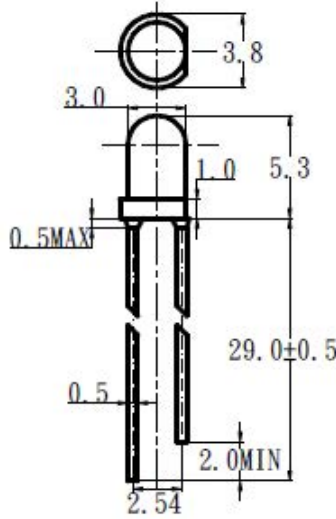
Descriptions

- ◆ Infrared Emitting Diode (OS-3038F) 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:



Part NO.	Material	Lens Color
OS-3038F	AlGaAs	Water Clear

Notes:

1. All dimensions are in millimeters.
2. Tolerances unless dimensions $\pm 0.25\text{mm}$.

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Absolute Maximum Ratings at Ta=25°C			
Parameter	Symbol	Rating	Unit
Continuous Forward Current	I _F	100	mA
Power Dissipation at (or below) 25°C Free Air Temperature	P _d	150	mW
Transient Peak Current (Pulse width=100 μs, Duty cycle=1%)	I _{FP}	1000	mA
Reverse Voltage	V _R	5	V
Operating Temperature	T _{opr}	-40~+85	°C
Storage Temperature*	T _{stg}	-40~+85	°C
Soldering Temperature	T _{sol}	260	°C

* 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	I _e	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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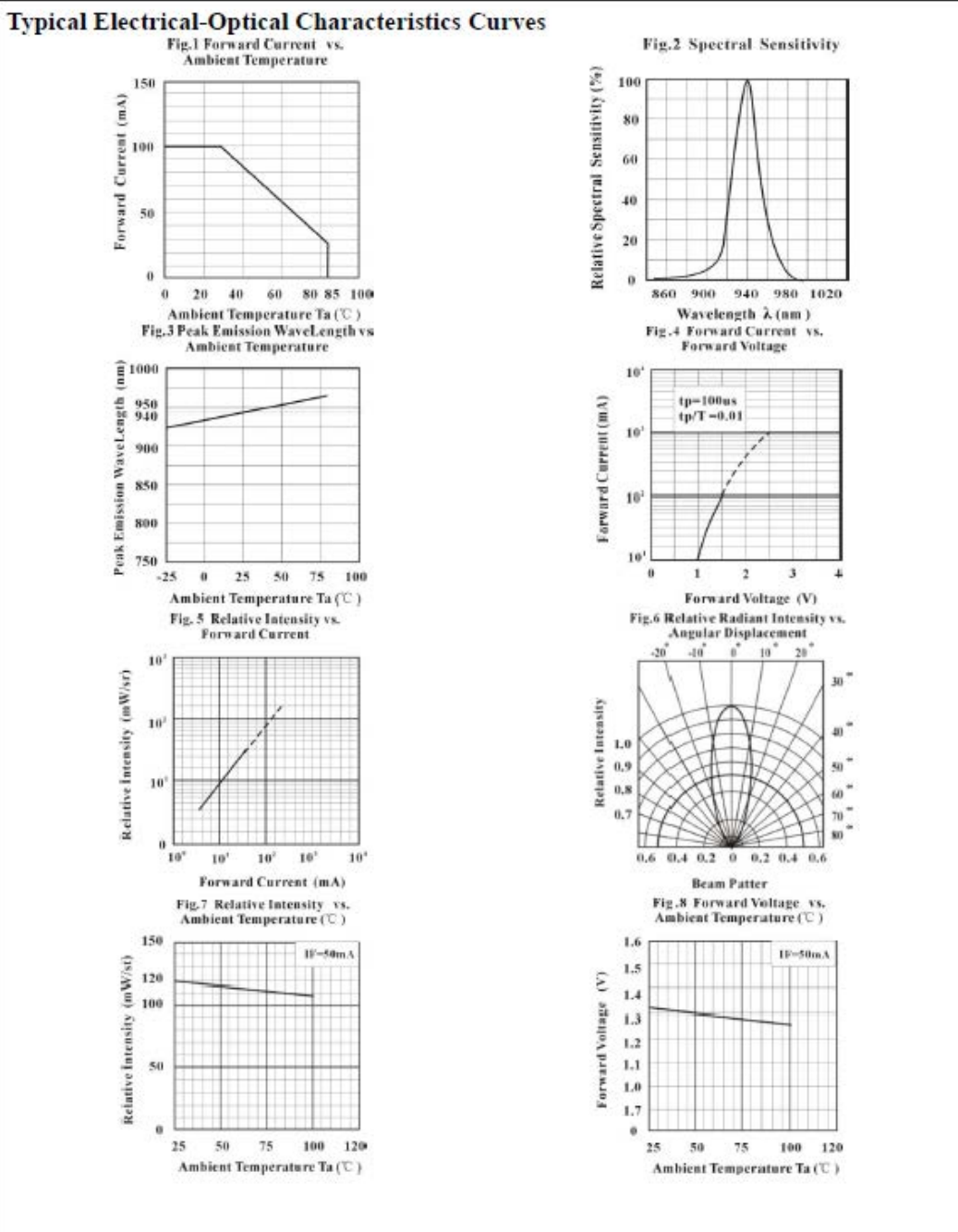
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