Part No.: JSL-502IRC940D15

Features:

- High reliability.
- Peak wavelength λp=940nm
- Low forward voltage
- High radiant intensity
- Available on tape and reel.
- Compliance with EU REACH.

Descriptions:

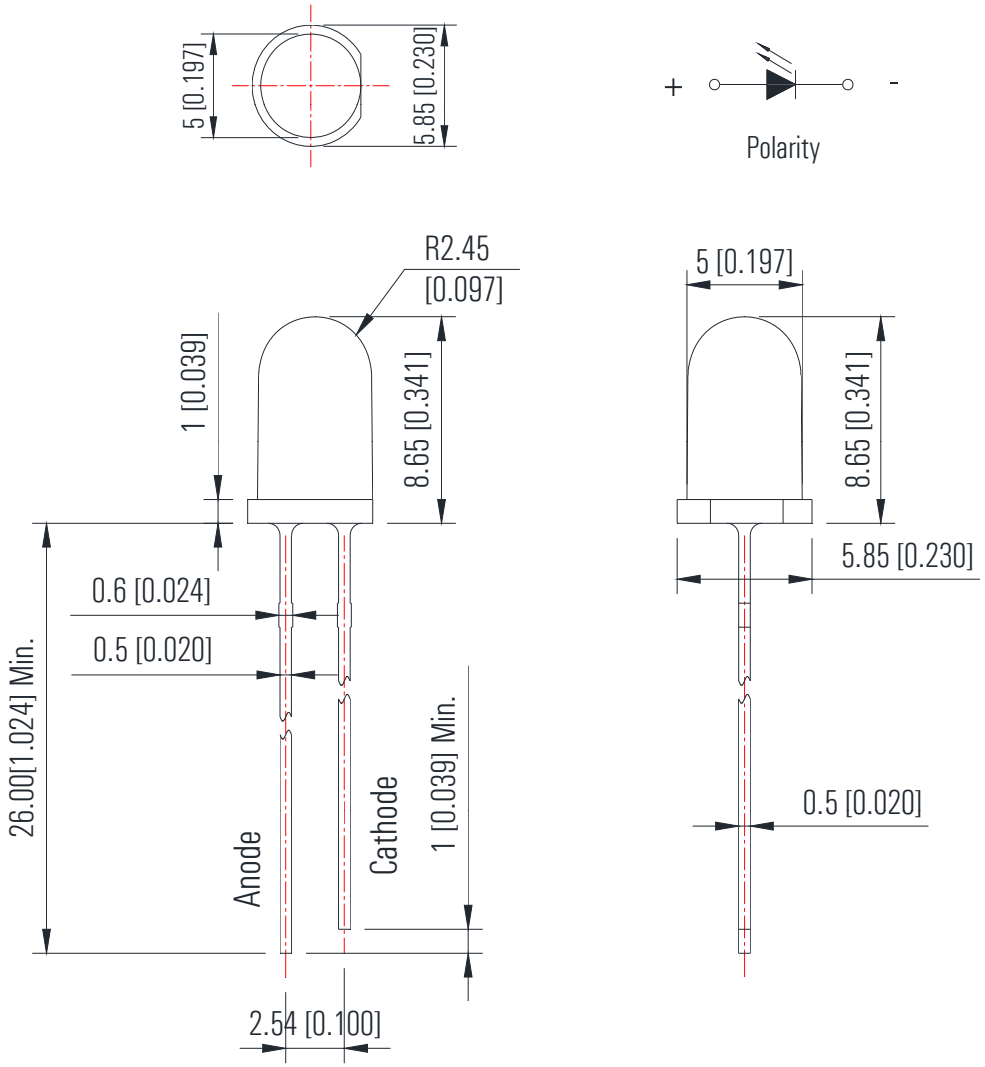
- The device is spectrally matched with phototransistor , photodiode and infrared receiver module.
- The Infrared Emitting Diode is a high intensity diode.
- Device Outline: 5mm Round With Flange Type.
- Lens Type: Water Clear

Application:

- Industral IR equipment.
- IR Touch-Panel.
- Optoelectronic switch.
- IR Communications.

Part No.: JSL-502IRC940D15

Package Dimension:



Notes:

1. All dimensions are millimeters/单位：mm.
2. Tolerance is +/-0.25mm unless otherwise noted/
没有标注的公差均为±0.25mm

Part No.: JSL-502IRC940D15

Absolute maximum ratings（Ta = 25℃）

Parameter	Symbol	Test Condition	Values		Unit
			Min.	Max.	
Reverse Voltage	V_R	I_R = 30 μA	----	5	V
Forward Current	I_F	----	----	100	mA
Power Dissipation	P_d	----	----	150	mW
Pulse Current	I_{peak}	Duty=0.1mS，1kHz	----	800	mA
Operating Temperature	T_{opr}	----	-40	+85	℃
Storage Temperature	T_{str}	----	-40	+85	℃

Electrical and optical characteristics（Ta = 25℃）

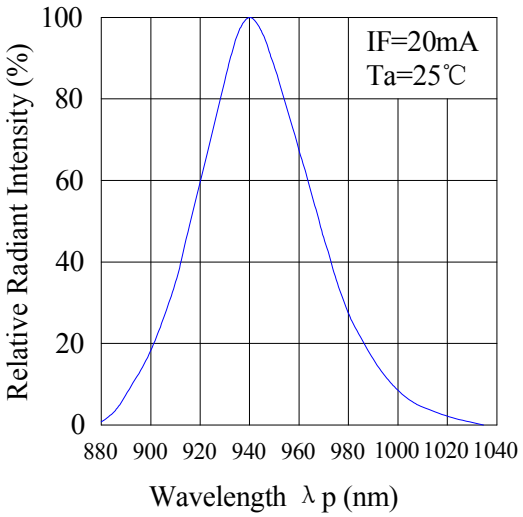
Parameter	Symbol	Test Condition	Values			Unit
			Min.	Typ.	Max.	
Forward Voltage	V_F	I_F=20mA	0.8	1.2	1.5	V
		I_F=50mA	1.0	1.3	1.7	
Peak Wavelength	λ_p	I_F=20mA	----	940	----	nm
Spectral Line half-width	$\Delta\lambda$	I_F=20mA	----	45	----	nm
Radiant Intensity	Ee	I_F=20mA	8	12	----	mW/sr
		I_F=50mA	20	45	----	
Reverse Current	I_R	V_R=5V	----	----	10	μA
Viewing Angle	$2\theta_{1/2}$	I_F=20mA	----	15	----	deg.

Part No.: JSL-502IRC940D15

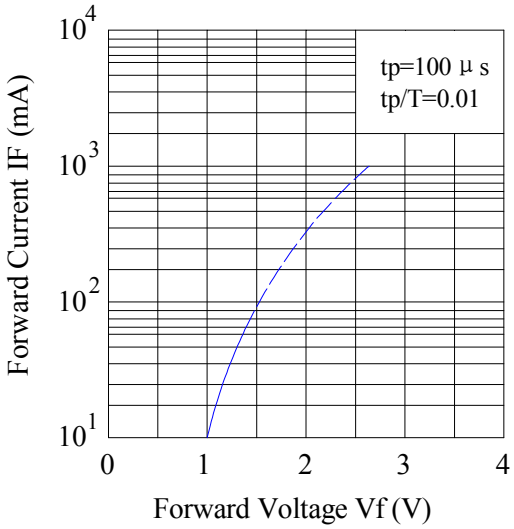
Typical electrical/optical characteristic curves:

(25℃ Ambient Temperature Unless Otherwise Noted)

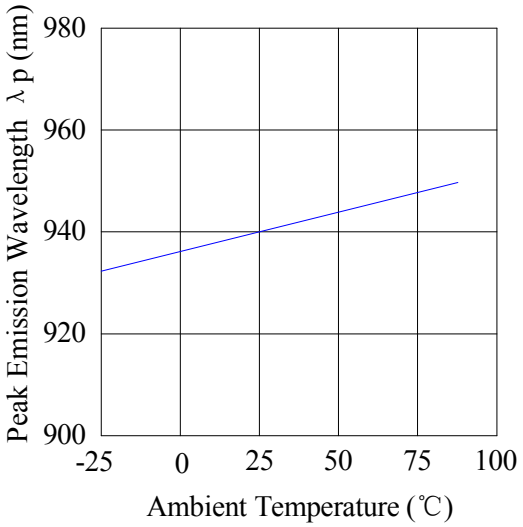
Spectral Distribution



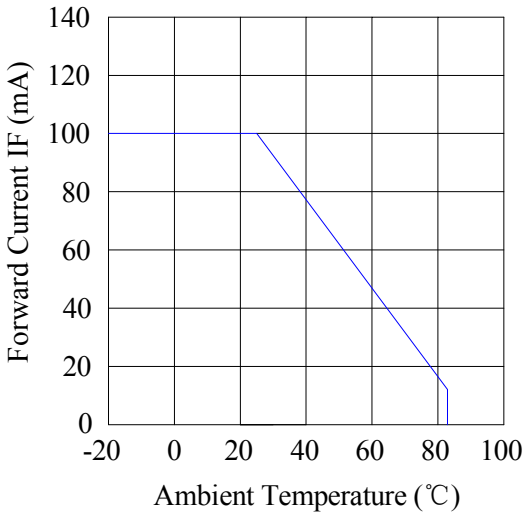
Forward Current & Forward Voltage



Peak Emission Wavelength & Ambient Temperature



Forward Current & Ambient Temperature

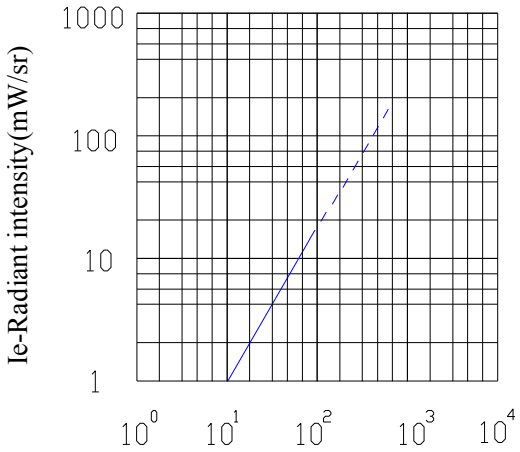


Part No.: JSL-502IRC940D15

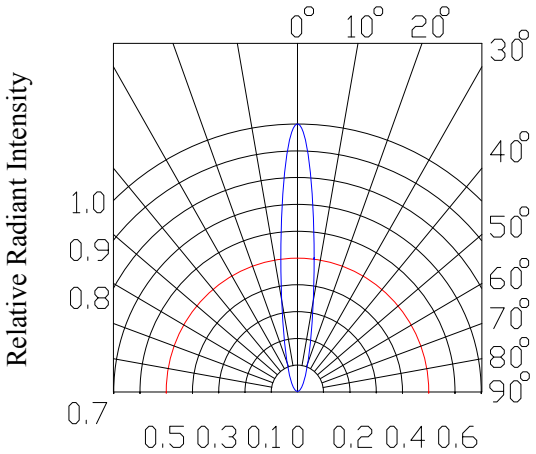
Typical electrical/optical characteristic curves:

(25℃ Ambient Temperature Unless Otherwise Noted)

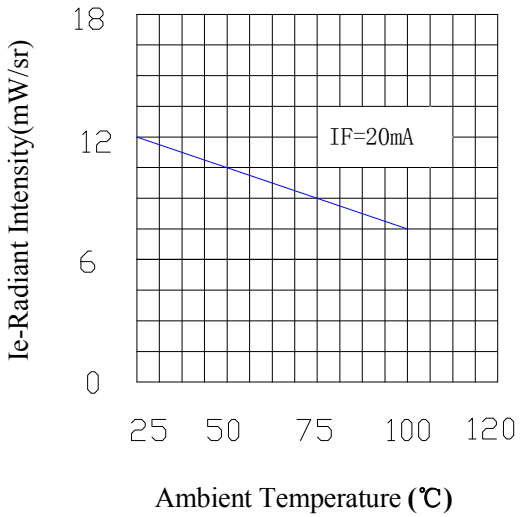
Relative Intensity & Forward Current



Relative Radiant Intensity & Angular Displacement



Relative Intensity & Ambient Temperature(℃)



Forward Voltage & Ambient Temperature(℃)