样品承认书

客户编号：_____

规格型号：EL-1BL3

样品编号：_____

认定盖章 Approved Signatures	
工 程	审 核

承认单位：_____

客户反馈意见：_____

_____

_____

认定盖章 Approved Signatures			
核 准	品 管	工 程	采 购

电话：0755-88355513　　传真：0755-88355513

Features

- High radiant intensity
- Peak wavelength= λ_P=940nm
- View angle 40°
- High reliability
- 2.54mm Lead spacing
- Low forward voltage
- Pb free
- The product itself will remain within RoHS compliant version.

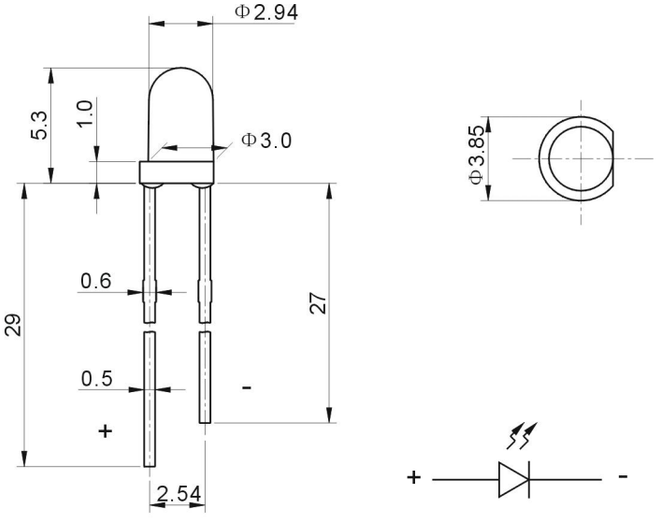
Descriptions

- Infrared Emitting Diode（EL-1BL3）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
EL-1BL3	AlGaAs	Blue Transparent

Notes:

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

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 Peak Current（Pulse width=100 μ s, Duty cycle=1%）	I_{FP}	100	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	1.4	1.5		V	I_F=50mA
Radiant Intensity	Ie	28	45		mW/sr	I_F=50mA
Peak Wavelength	λ_P		940		nm	I_F=50mA
Reverse Current	I_R			10	μ A	V_R=5V
Viewing Angle	θ		40		deg	I_F=50mA

Typical Electrical-Optical Characteristics Curves

Fig.1 Forward Current vs. Ambient Temperature

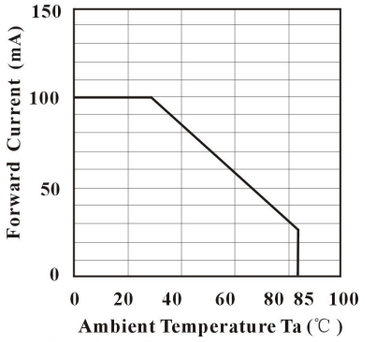


Fig.2 Spectral Sensitivity

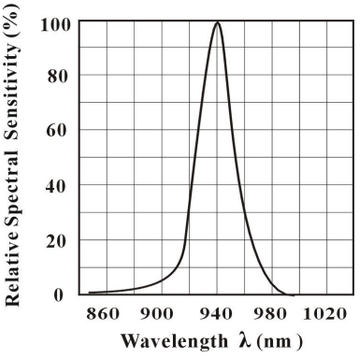


Fig.3 Peak Emission WaveLength vs Ambient Temperature

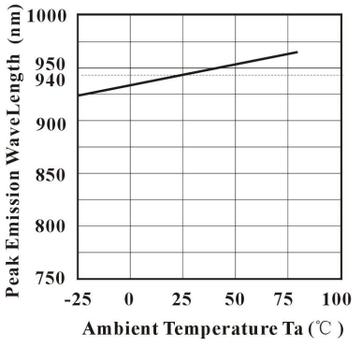


Fig.4 Forward Current vs. Forward Voltage

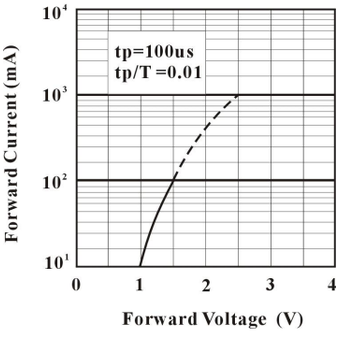
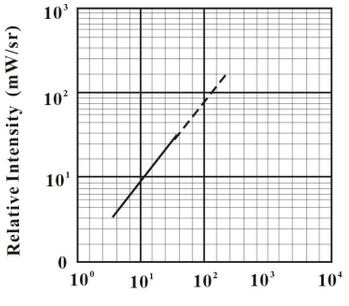


Fig. 5 Relative Intensity vs. Forward Current



Beam Patter

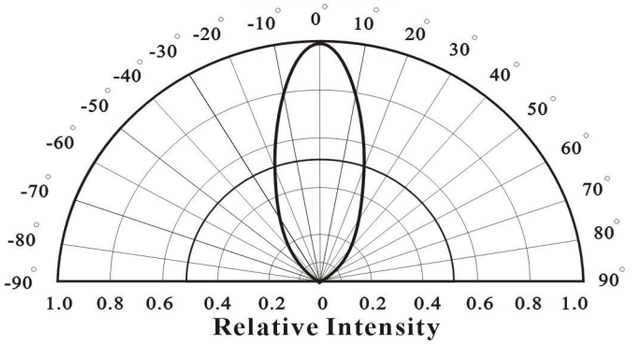


Fig.7 Relative Intensity vs. Ambient Temperature (℃)

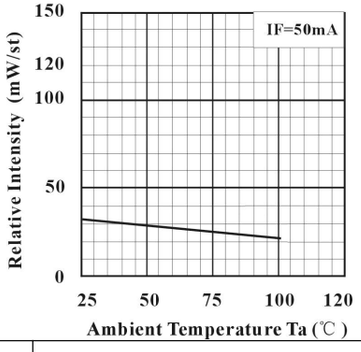


Fig.8 Forward Voltage vs. Ambient Temperature (℃)