

SMD Infrared Diode

BL-LS1608A0E1IR

Features:

- 1.6mmx0.8mm SMD, 0.6mm THICKNESS, Infrared diode
- High Reliability
- Peak Wavelength at 940, 880, 850nm
- Water Clear, yellow Transparent, Blue Transparent available
- IC compatible /Low current capability.
- PACKAGE: 4KPCS/REEL.
- RoHs Compliance



Applications:

- Free air transmission system
- Smoke detector
- Infrared Camera
- Optoelectronic switch
- Infrared applied system

Electrical-optical characteristics: (Ta=25°C) (Test Condition: IF=20mA)

Part Number	Chip		Lens Type	$\Delta\lambda$	Ir (Vr=5V, uA)	Forward Voltage(VF) Unit:V		Radiant Power (mw/sr)	Viewing Angle 201/2(deg)
	Material	λ_P (nm)				Typ	Max		
								Typ	
BL-LS1608A0E1IRAC	GaAs	940	Water Clear	50	10	1.20	1.50	1.5	120
BL-LS1608A0E1IRAB	GaAs	940	Blue Trans.	50	10	1.20	1.50	1.5	
BL-LS1608A0E1IRBC	GaAlAs	880	Water Clear	50	10	1.20	1.50	1.5	
BL-LS1608A0E1IRBB	GaAlAs	880	Blue Trans.	50	10	1.20	1.50	1.5	
BL-LS1608A0E1IRCC	GaAlAs	850	Water Clear	50	10	1.20	1.50	2	
BL-LS1608A0E1IRCB	GaAlAs	850	Blue Trans.	50	10	1.20	1.50	2	
BL-LS1608A0E1IRCY	GaAlAs	850	Yellow Trans.	50	10	1.20	1.50	2	

Absolute maximum ratings (Ta=25°C)

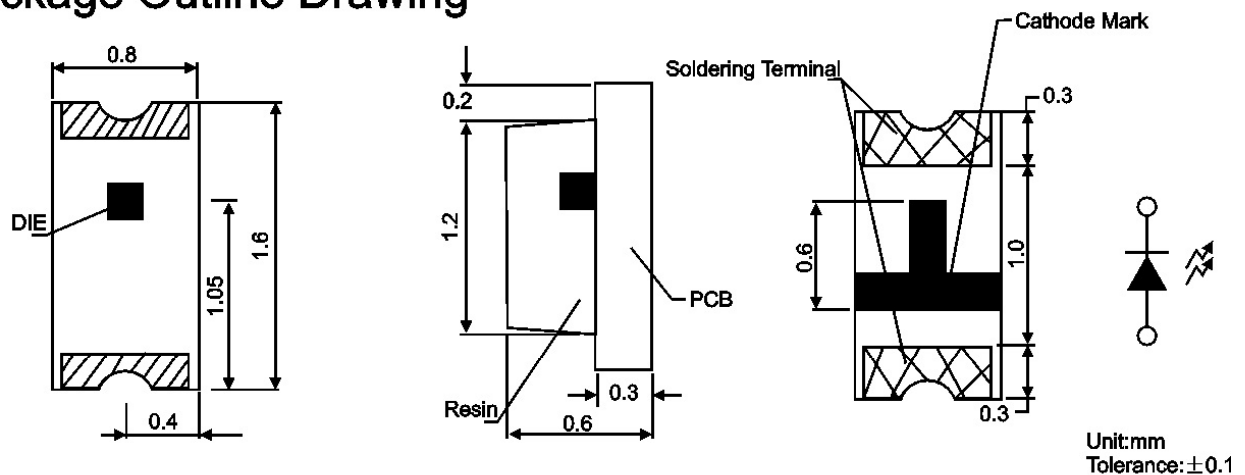
Parameter	Rating	Unit
Forward Current I_F	65	mA
Power Dissipation P_d	130	mW
Reverse Voltage V_R	5	V
Peak Forward Current I_{PF} (Duty 1/10 @1KHZ)	250	mA
Operation Temperature T_{OPR}	-40 to +100	°C
Storage Temperature T_{STG}	-40 to +100	°C
Lead Soldering Temperature T_{SOL}	Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb)	°C

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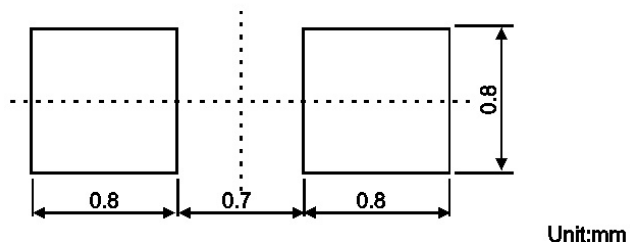
BL-LS1608A0E1R

■ Package configuration & Internal circuit diagram

BL-LS1608A0E1 Series Package Outline Drawing



Recommended Soldering Pad Dimensions



Notes:

1. All dimensions are in millimeters (inches)
2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
3. Specifications are subject to change without notice.

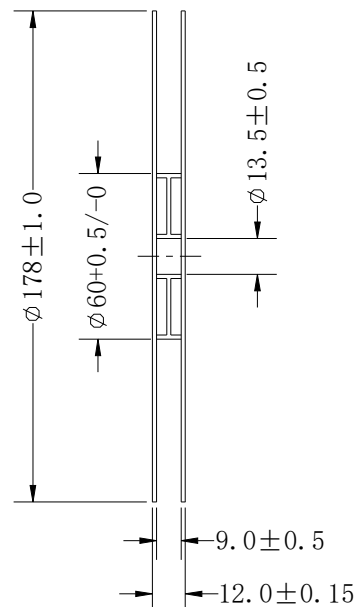
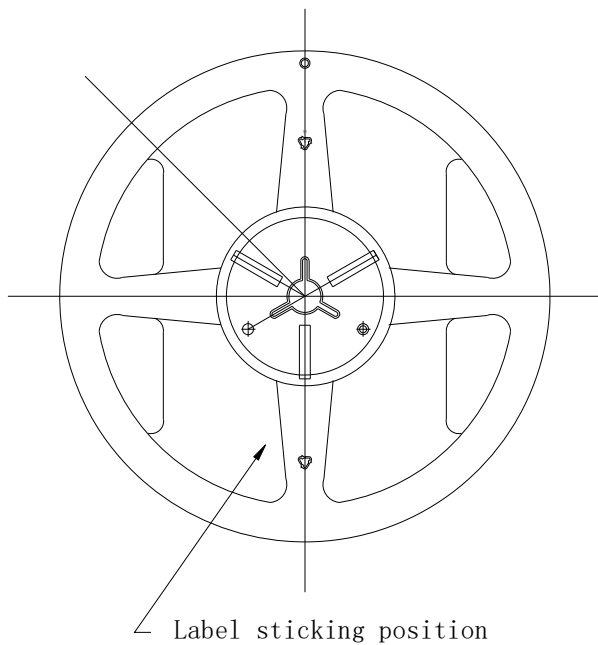
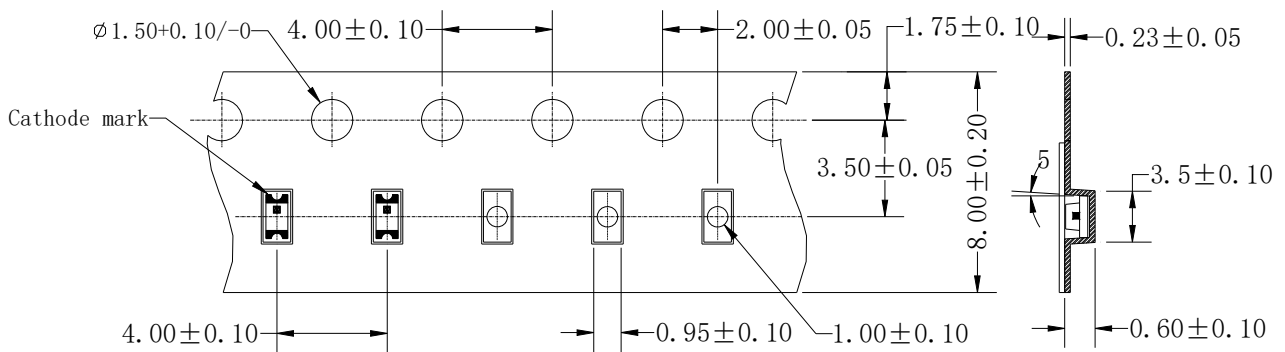
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■ Tape Specifications

Unit: mm

Tolerance: ± 0.1

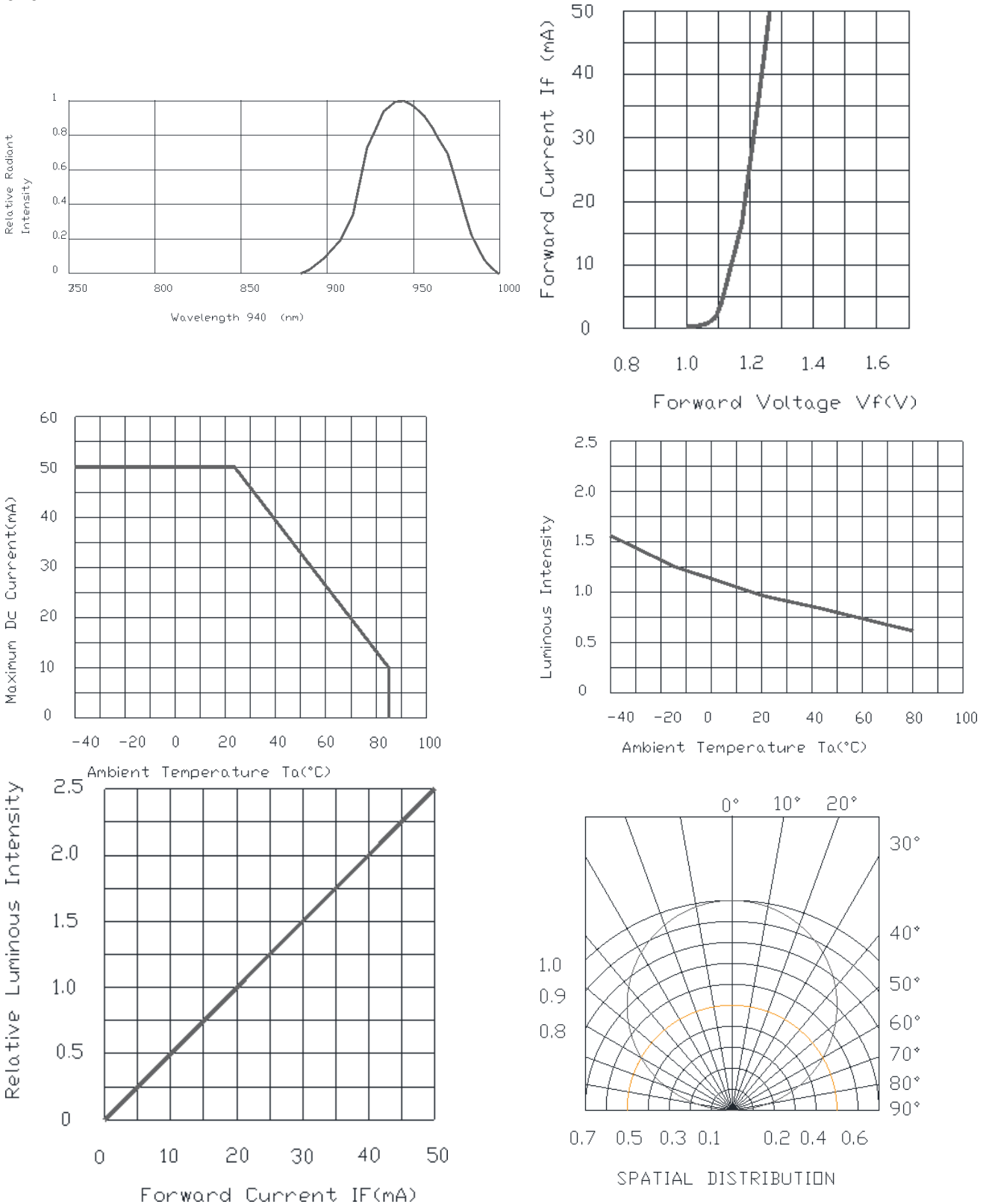


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■ **Typical electrical-optical characteristics curves:**

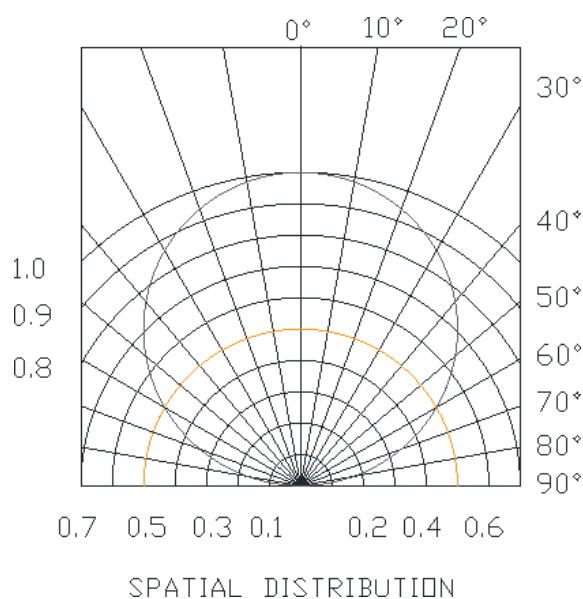
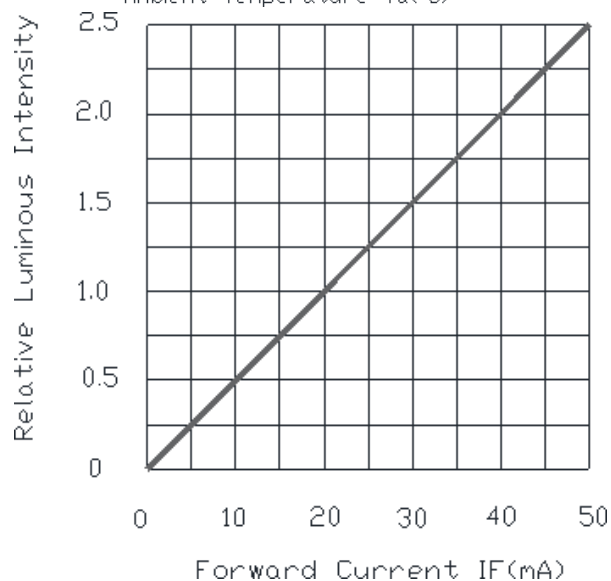
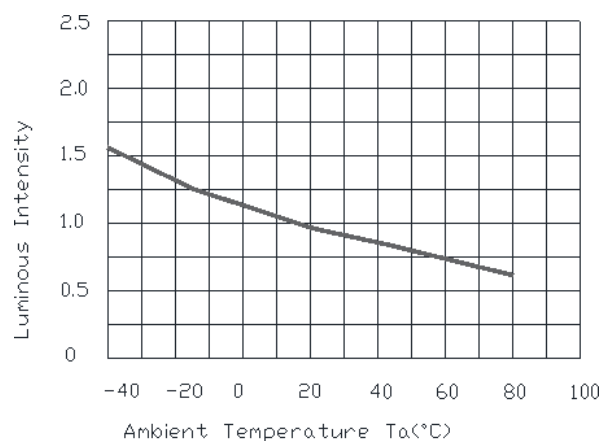
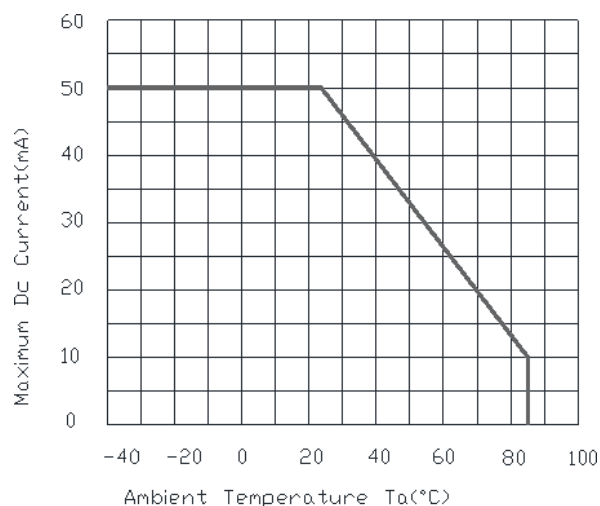
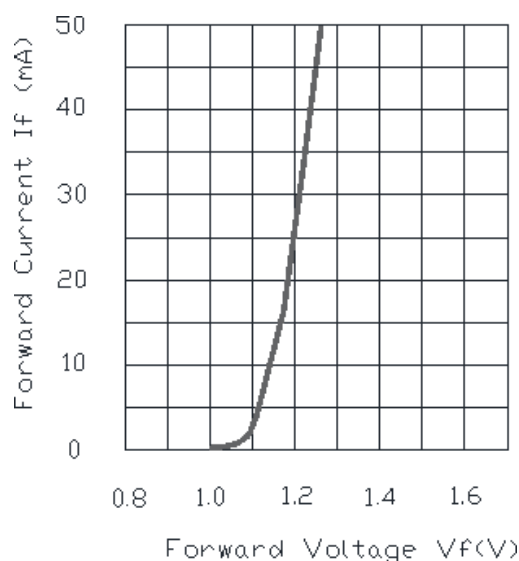
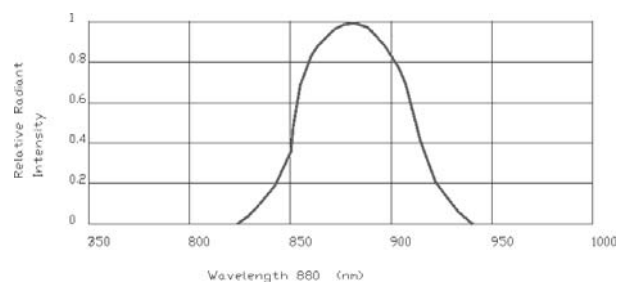
940nm



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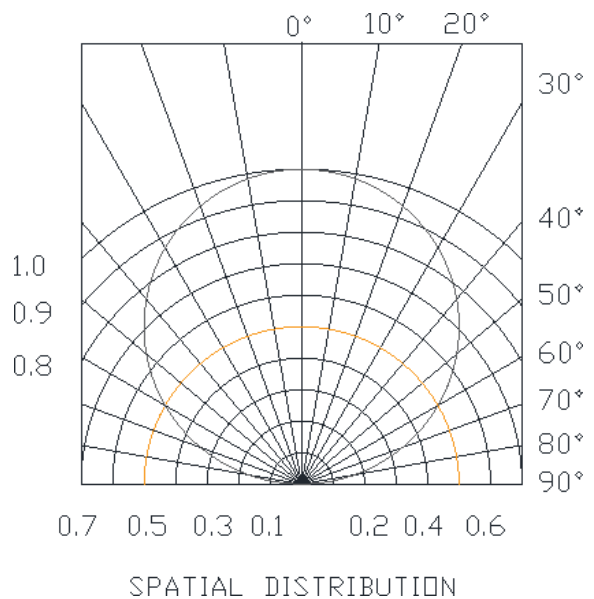
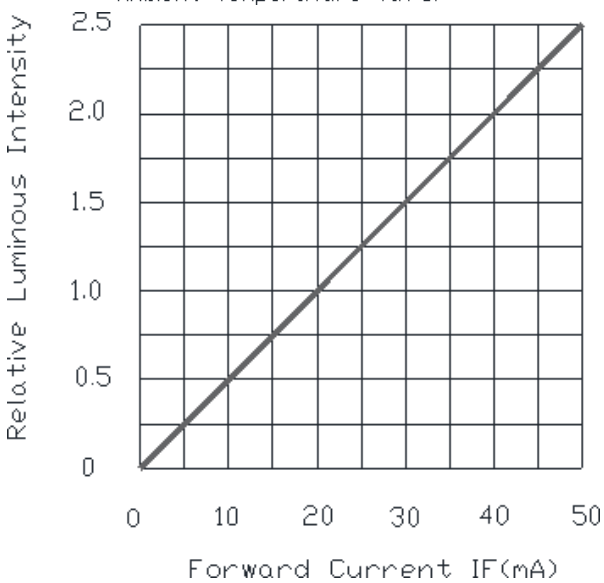
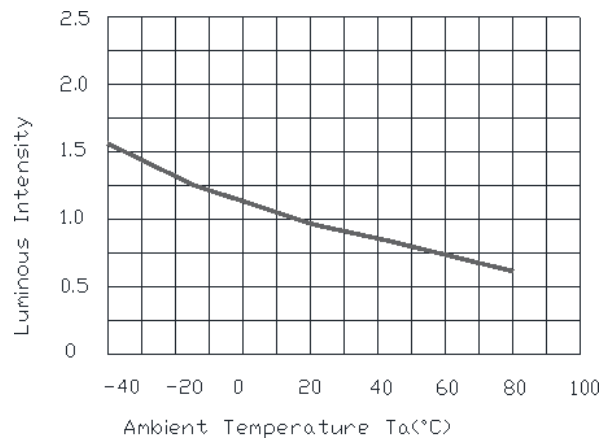
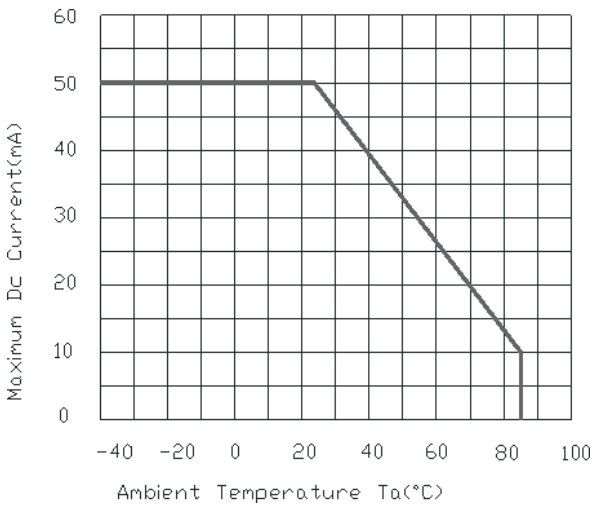
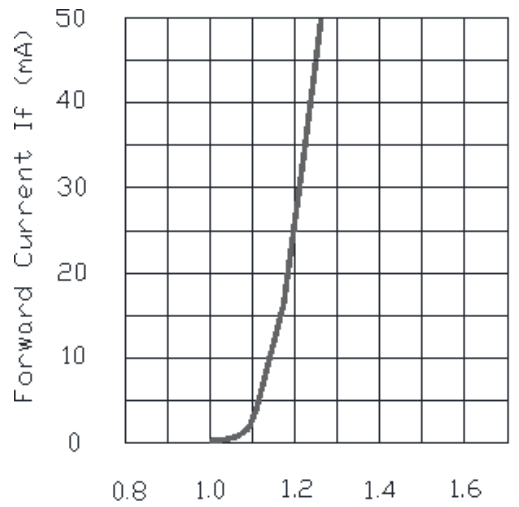
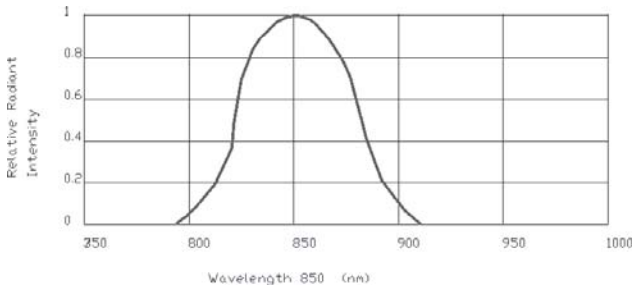
880nm



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850nm



SMD Infrared Diode

BL-LS1608A0E11R

■ Packing and weighting

