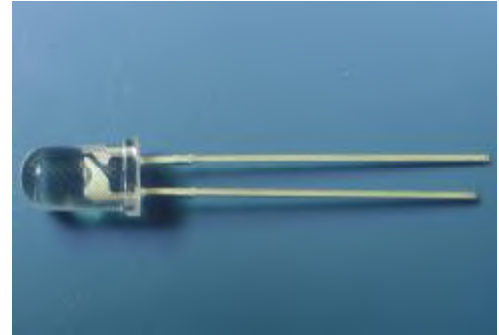




Features

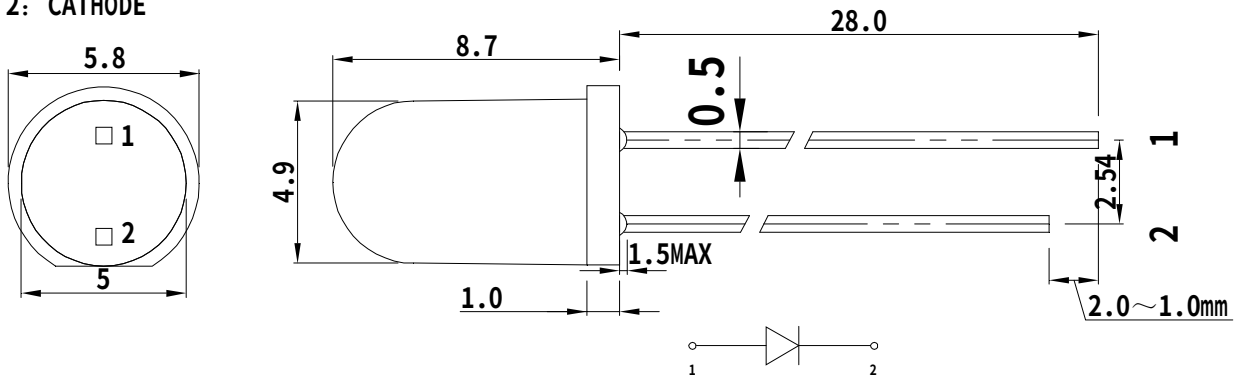
- Mechanically and spectrally matchend to the phototransistor.
- Rohs compliant.

HL-503IR4C-L5



Package Dimensions

- 1: ANODE
2: CATHODE



Tolerance Grade	Dimension Tolerance (UNIT:mm)			
	0.5~3	3~6	6~30	30~120
	±0.1	±0.2	±0.3	±0.5
Chip		Lens Color		
Material	Emitting Color	Water Clear		
GaAs	/			

Selection Guide

Part No	Radiant Intensity(mW/sr) $I_F=50\text{mA}$		Viewing Angle
	Min	Typ	2θ1/2 (供参考)
HL-503IR4C-L5	--	154	20

Note:

1. 2θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Tolerance of measurement of luminous intensity±15%.

Electrical / Optical Characteristics at TA=25°C

Item	Symbol	Min	Typ	Units	Test Conditions
Forward Voltage	V_F		1.5	V	$I_F=50\text{mA}$
Reverse Current	I_R	--	10	uA	
Peak Spectral Wavelength	λ_D	--	850	nm	
Spectral Bandwidth	$\Delta \lambda_{1/2}$	--	50	nm	

Note:

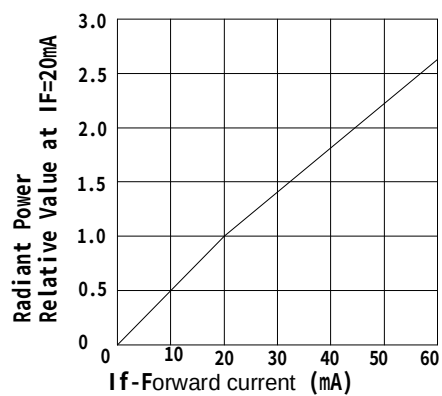
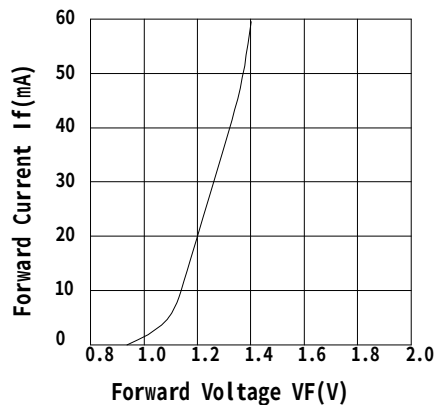
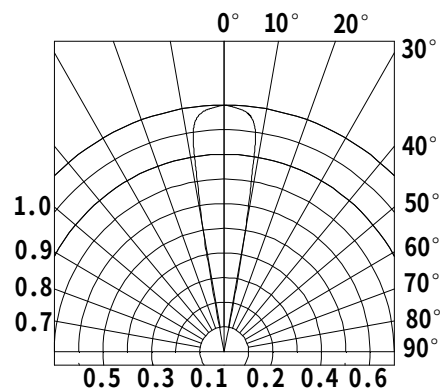
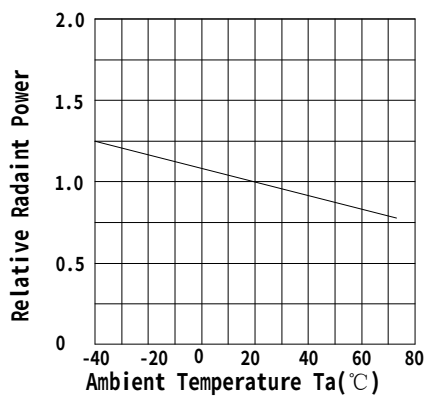
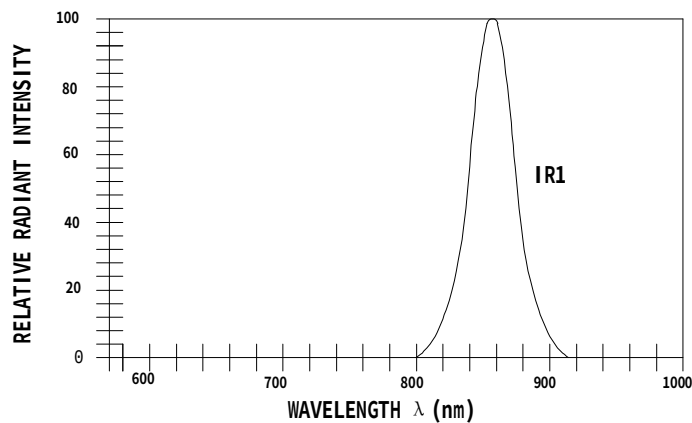
1. Tolerance of measurement of forward voltage±0.1V.
2. Tolerance of measurement of peak Wavelength±2.0nm.

Absolute Maximum ratings at Ta=25°C

Parameter	Symbol	IR1	Units
Power Dissipation	Pt	100	mW
DC Forward Current	I_F	50	mA
Peak Forward Current[1]	i_{FS}	300	mA
Operating Temperature	-30°C~80°C		
Storage Temperature	-30°C~80°C		

Note:

1. IFP Conditions: Pulse Width≤10msec
2. T_{sol} Conditions: 3mm from the base of the epoxy bulb



Remarks:

If special sorting is required (e.g. binning based on forward voltage or radiant intensity/luminous flux), the typical accuracy of the sorting process is as follows:

1. Radiant intensity/Luminous Flux: $\pm 15\%$.
2. Forward Voltage: $\pm 0.1V$.

Note: Accuracy may depend on the sorting parameters.



Soldering:

1. Manual Of Soldering

The temperature of the iron tip should not be higher than 300°C and Soldering within 3 seconds per solder-land is to be observed.

2. DIP soldering (Wave Soldering):

Preheating: 120°C~150°C, within 120~180 sec.

Operation heating: 245°C ± 5°C within 5 sec. 260°C (Max)

Gradual Cooling (Avoid quenching).

