

Peak Emission Wavelength: 650nm

The 650nm Point Source Series is designed for applications requiring high accuracy and precision. Custom package solutions and sorting are available.

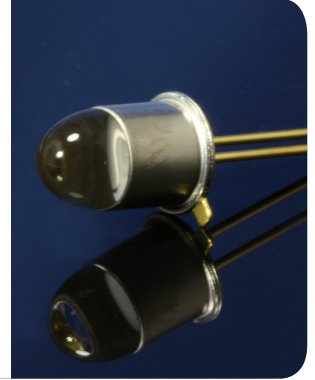
FEATURES

- > Hermetically Sealed TO-18
- > Emitting Window Diameter Φ 170 μ m
- > Gold Plated Dome Lens
- > High Reliability / High Output Power

- > Extremely Narrow Radiation Pattern

APPLICATIONS

- > Optical Sensing / Optical Instruments
- > Linear & Rotary Encoder
- > Machine Vision / CCD



Absolute Maximum Ratings (Ta=25°C)

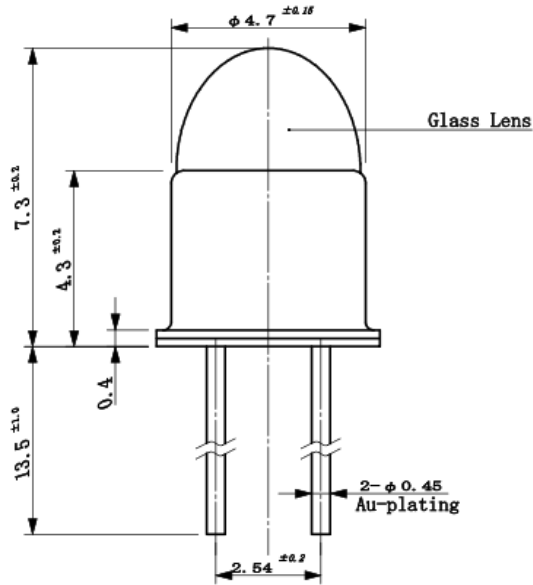


ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	80	mA
Reverse Voltage	VR	3	V
Operating Temperature Range	Topr	-40 ~ +85	°C
Storage Temperature Range	Tstg	-40 ~ +100	°C

*1: Tw=10 μ sec, T=10msec; *2: Time 5 Sec max, Position: Up to 3mm from the body.

Electrical & Optical Characteristics (Ta = 25°C)

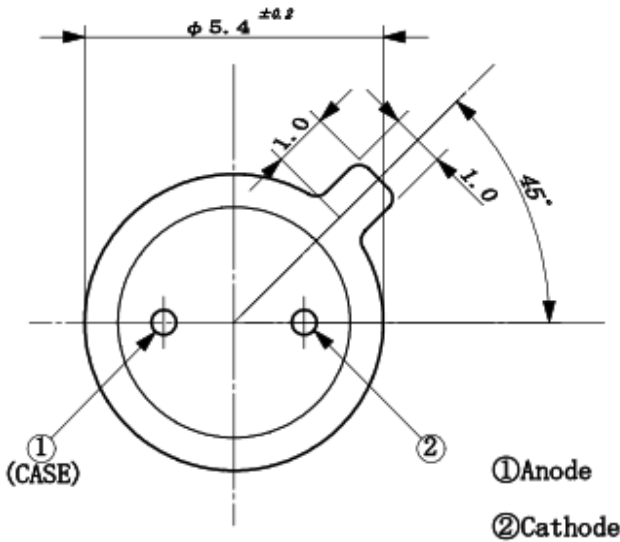
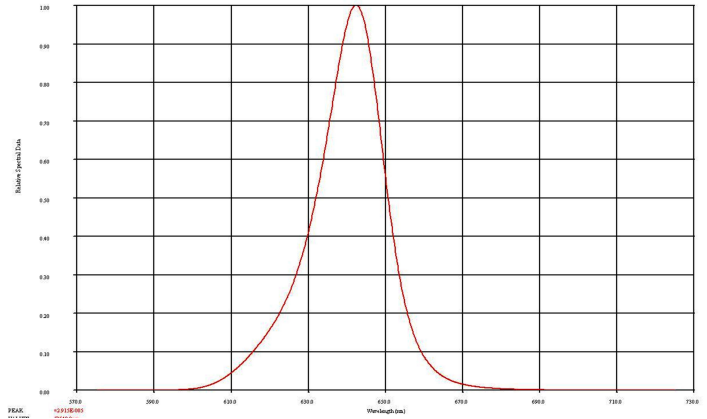
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=20mA	--	5.16	--	mW
Forward Voltage	VF	IF=20mA	--	2.06	--	VR
Peak Emission Wavelength	λ_p	IF=20mA	--	650	--	nm
Spectral Line Half Width	$\Delta\lambda$	IF=20mA	--	19	--	nm
Half Intensity Beam Angle	Θ	IF=20mA	--	± 3.0	--	deg



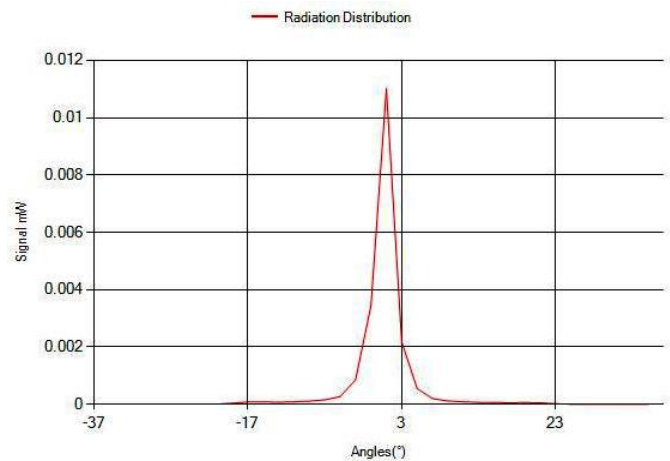
Glass Lens

2- $\phi 0.45$
Au-plating

Spectral Response



Radiation Distribution



Unit: mm, Tolerance: ±0.2



View Angle

