

Peak Emission Wavelength: 850nm

The 850nm Point Source Series is designed for applications requiring high accuracy and precision as well as uniform spectral emission. Custom package solutions and sorting are available.

FEATURES

- > Hermetically Sealed TO-18 Package
- > Emitting Window Diameter Φ 50 μ m
- > Gold Plated Flat Top Can
- > High Reliability / High Output Power

APPLICATIONS

- > Optical Scanning
- > Linear & Rotary Encoder
- > Edge Sensing / Optical Sensors
- > Fiber Optics / Optical Communications

Absolute Maximum Ratings (Ta=25°C)

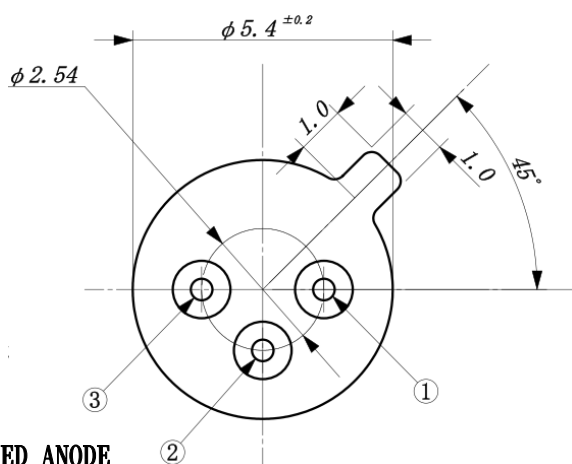
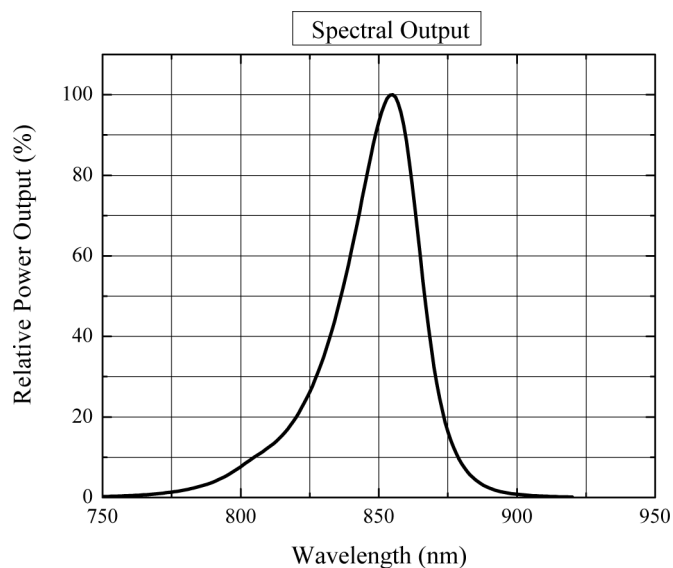
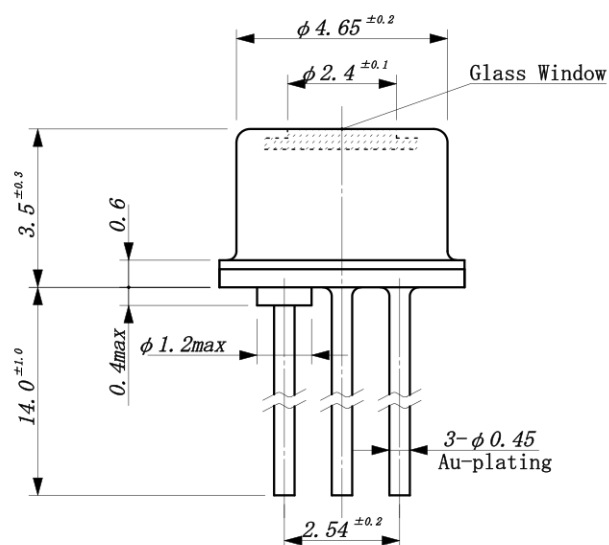


ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	80	mA
Forward Current (Pulse)*1	IFP	0.4	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	150	mW
Operating Temperature Range	Topr	-30 ~ +100	°C
Storage Temperature Range	Tstg	-40 ~ +125	°C
Junction Temperature	Tj	125	°C
Lead Soldering Temperature*2	Tls	260	°C

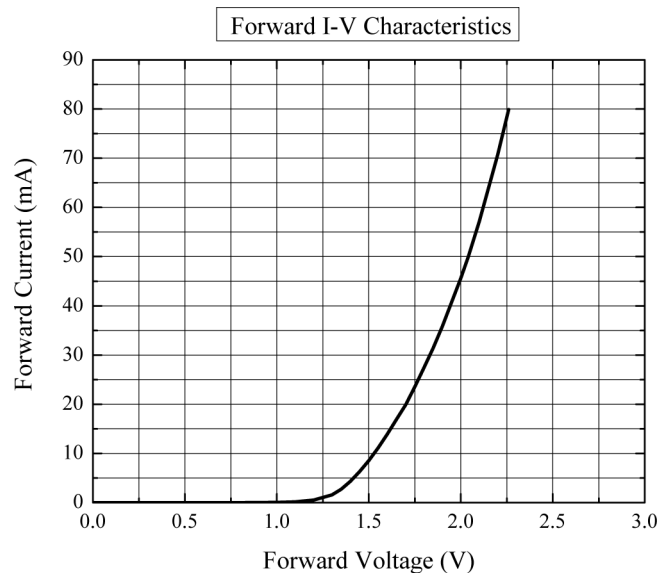
*1: Tw=10 μ sec, T=10msec. *2. Time 5sec Max, Position: Up to 3mm from the body.

Electrical & Optical Characteristics (Ta = 25°C)

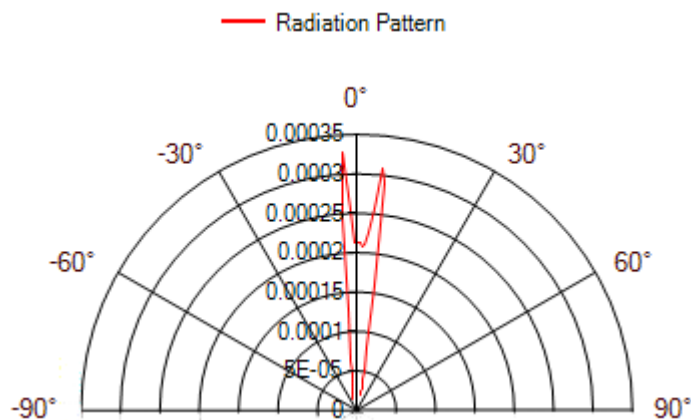
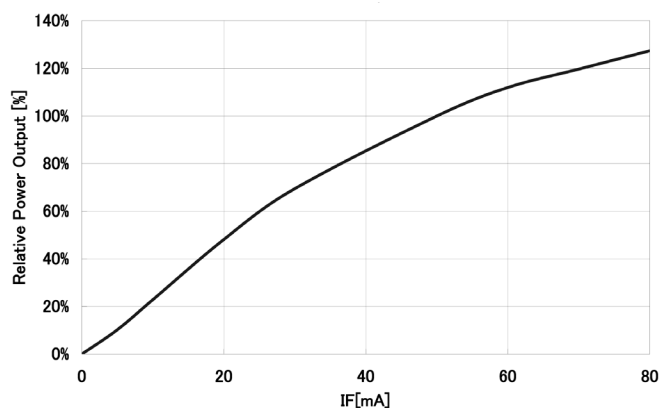
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	Po	IF=50mA	2.5	3.5	--	mW
Forward Voltage	VF	IF=50mA	--	2.0	2.4	V
Reverse Current	IR	VR=5V	--	--	10	μ A
Peak Wavelength	λ_p	IF=50mA	--	850	--	nm
Spectral Line Half Width	$\Delta\lambda$	IF=50mA	--	45	--	nm
Half Intensity Beam Angle	Θ	IF=50mA	--	± 6	--	deg



- ① LED ANODE
- ② LED CATHODE
- ③ CASE



Unit: mm, Tolerance: ± 0.2



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