

Peak Emission Wavelength: 650nm

The 650nm 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

- > PLCC-2 Package
- > Emitting Window Diameter Φ 150 μ m
- > High Reliability

APPLICATIONS

- > Optical Switches
- > Linear & Rotary Encoder



Absolute Maximum Ratings (Ta=25°C)

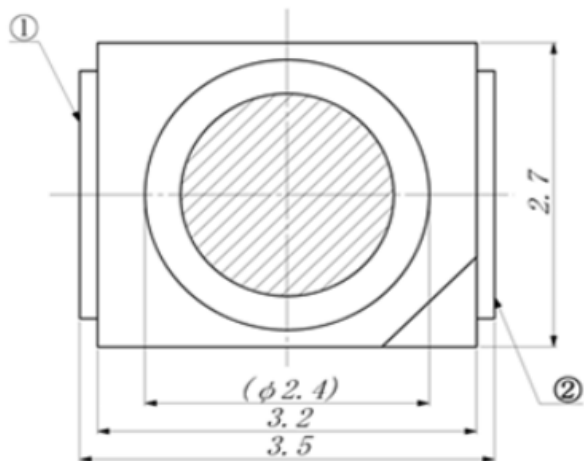


ITEMS	SYMBOL	RATINGS	UNIT
Forward Current	IF	50	mA
Forward Current (Pulse)*1	IFP	0.3	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	120	mW
Operating Temperature Range	Topr	-20 ~ +80	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C
Lead Soldering Temperature	Tls	260	°C

*1: Tw≤10 μ s, T=10ms

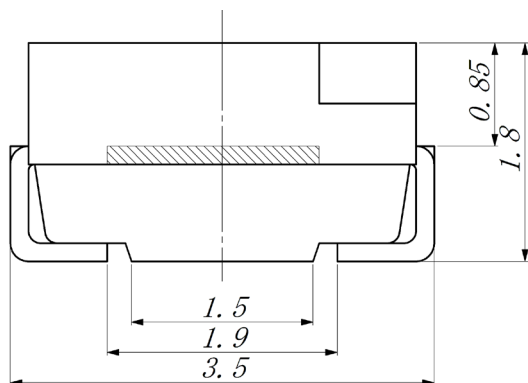
Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=20mA	--	1.0	--	mW
Forward Voltage	VF	IF=20mA	--	1.9	2.4	V
Reverse Current	IR	VR=5V	--	--	100	μ A
Peak Emission Wavelength	λ_p	IF=20mA	--	650	--	nm
Spectral Line Half Width	$\Delta\lambda$	IF=20mA	--	5	--	nm
Half Intensity Beam Angle	Θ	IF=20mA	--	±40	--	deg



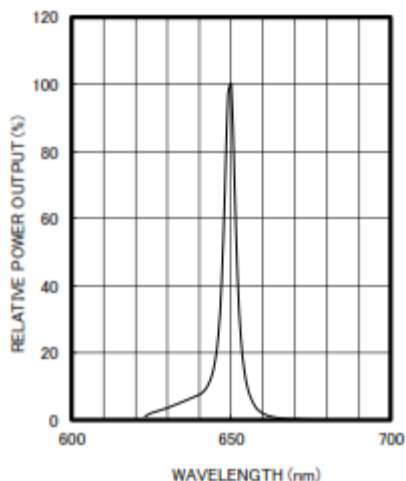
① Anode

② Cathode

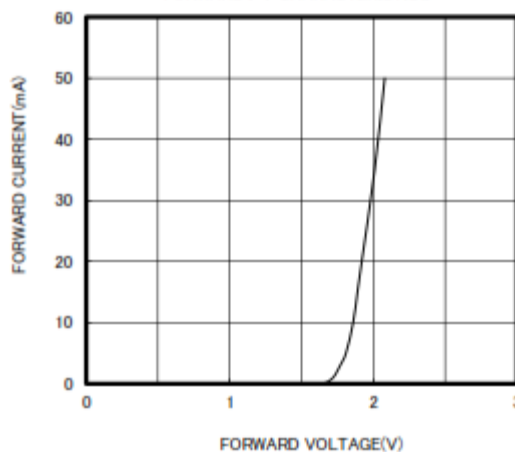


Unit: mm, Tolerance: ± 0.2

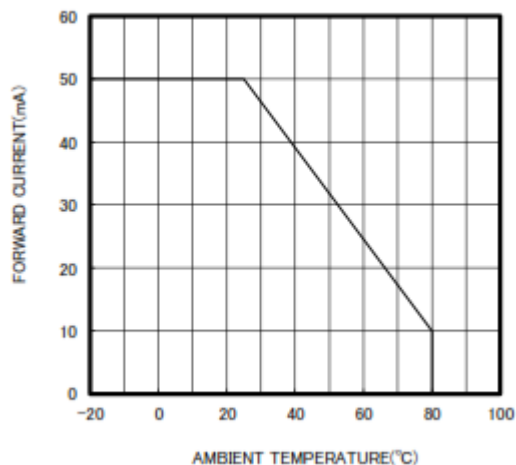
SPECTRAL OUTPUT



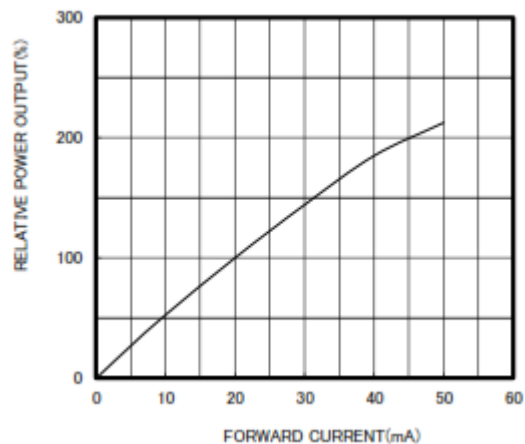
FORWARD I-V CHARACTERISTICS

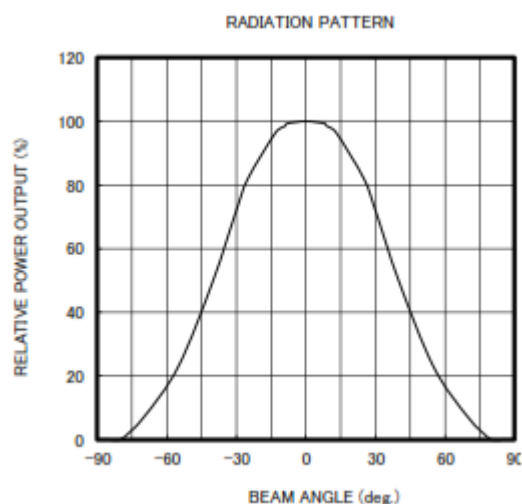


THERMAL DERATING CURVE



RELATIVE POWER vs FORWARD CURRENT





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