Optrans

Preliminary

Visible Emitter

Product No: **VS6611SMC**

Peak Emission Wavelength: 660nm

The 660nm emitter is designed for applications requiring high output and precise optical / mechanical axis alignment. Custom package solutions and sorting are available.

FEATURES

> 3.5×2.2×1.24 Flat Top Ceramic SMT
> High Reliability
> High Output Power
> Wide Beam Angle

APPLICATIONS

> Light Source For Emitters
> Industrial Equipment
> Machine Vision

Absolute Maximum Ratings (Ta=25°C)

ITEMS	SYMBOL	RATINGS	UNIT
Forward Current	IF	70	mA
Forward Current (Pulse)*1	IFP	0.5	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	182	mW
Operating Temperature Range	Topr	-20 ~ +80	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C

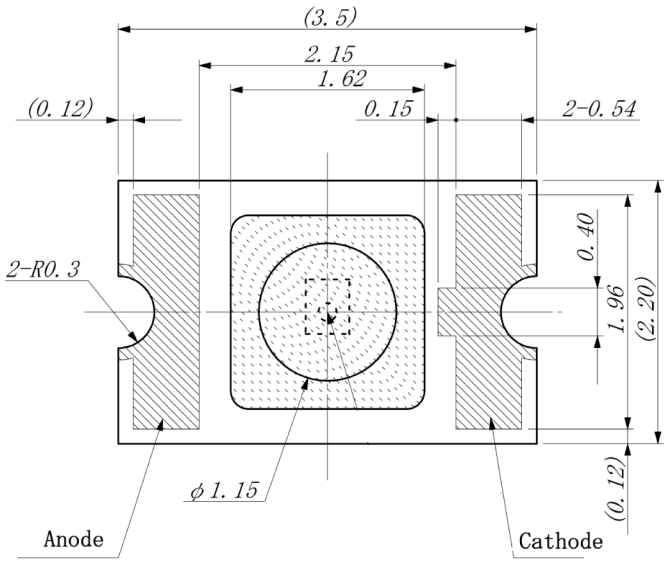
*1: Tw=10μsec, T=10msec.

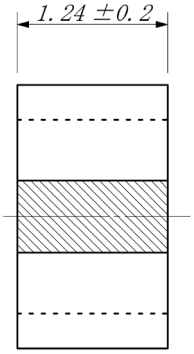
Electrical & Optical Characteristics (Ta = 25°C)

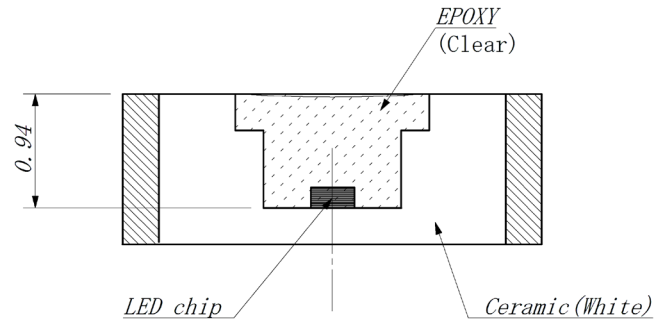
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=20mA	--	11.33	--	mW
Forward Voltage	VF	IF=20mA	--	1.94	--	V
Reverse Current	IR	VR=5V	--	--	100	μA
Peak Emission Wavelength	λp	IF=20mA	--	660	--	nm
Spectral Line Half Width	Δλ	IF=20mA	--	18	--	nm
Half Intensity Beam Angle	Θ	IF=20mA	--	106	--	deg

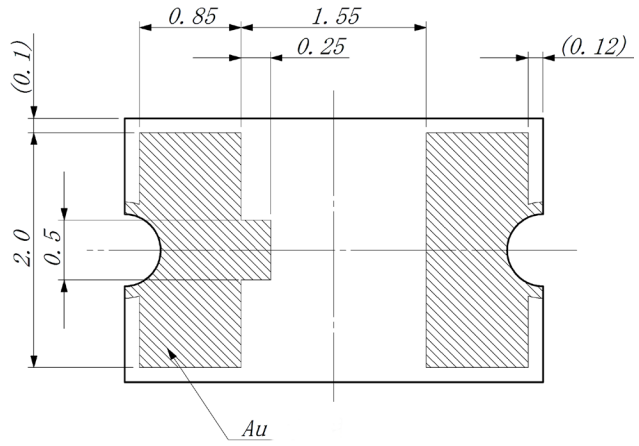
2026-05-22

Package Drawing









Unit: mm, Tolerance: ±0.2

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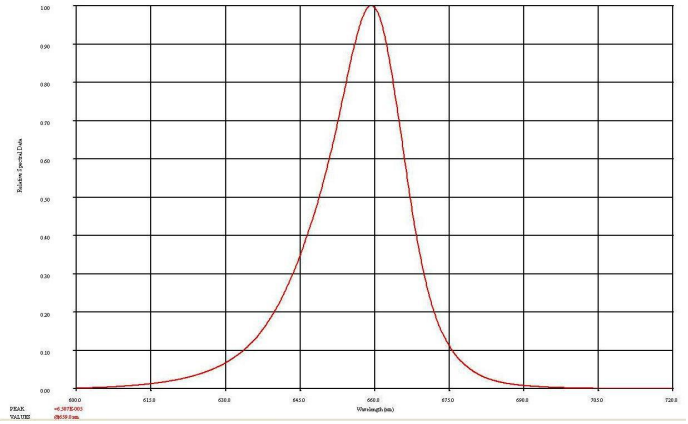
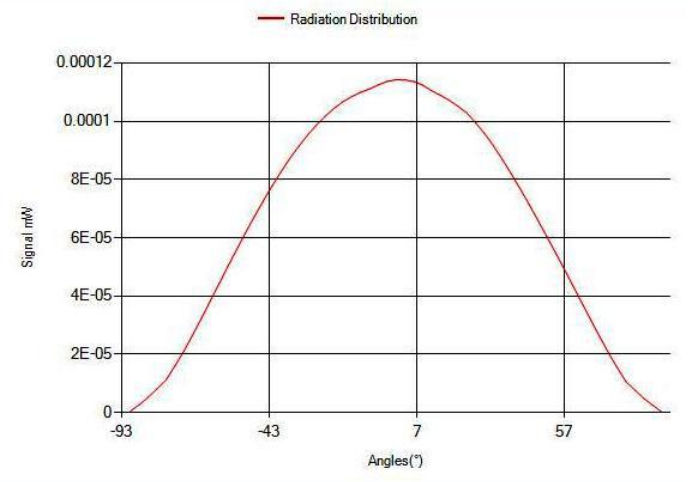
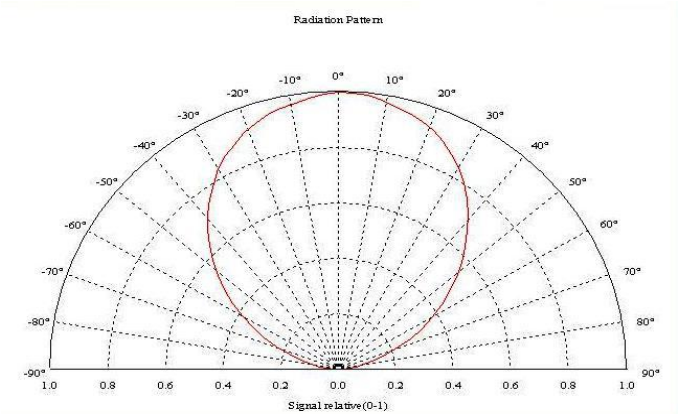
SPECTRAL RESPONSE



RADIATION DISTRIBUTION



VIEW ANGLE



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