Optrans

Preliminary

Point Source Emitter

Product No: **LS858SMTR2**

Peak Emission Wavelength: 850nm

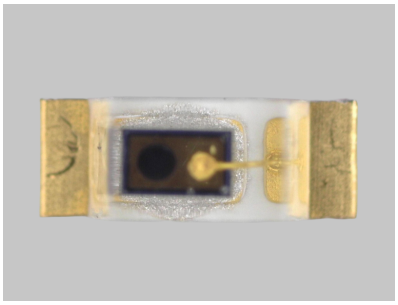
The 850nm emitter is designed for applications requiring high output and precise optical / mechanical axis alignment. Custom package solutions and sorting are available.

FEATURES

> 1.4 x 0.6 x 0.68 Transfer-molded SMT Package
> Emitting Window Diameter Φ 150μm
> High Output Power / High Reliability
> Wide Beam Angle

APPLICATIONS

> Industrial Equipment
> Machine Vision
> Optical Encoders



Absolute Maximum Ratings (Ta=25°C)

ITEMS	SYMBOL	RATINGS	UNIT
Forward Current	IF	100	mA
Reverse Voltage	VR	3	V
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=50mA	--	6.2	--	mW
Forward Voltage	VF	IF=50mA	--	1.57	--	V
Reverse Current	IR	VR=5V	--	--	100	μA
Peak Emission Wavelength	λp	IF=50mA	--	850	--	nm
Spectral Line Half Width	Δλ	IF=50mA	--	33	--	nm
Half Intensity Beam Angle	½Θ	IF=50mA	--	±70	--	deg

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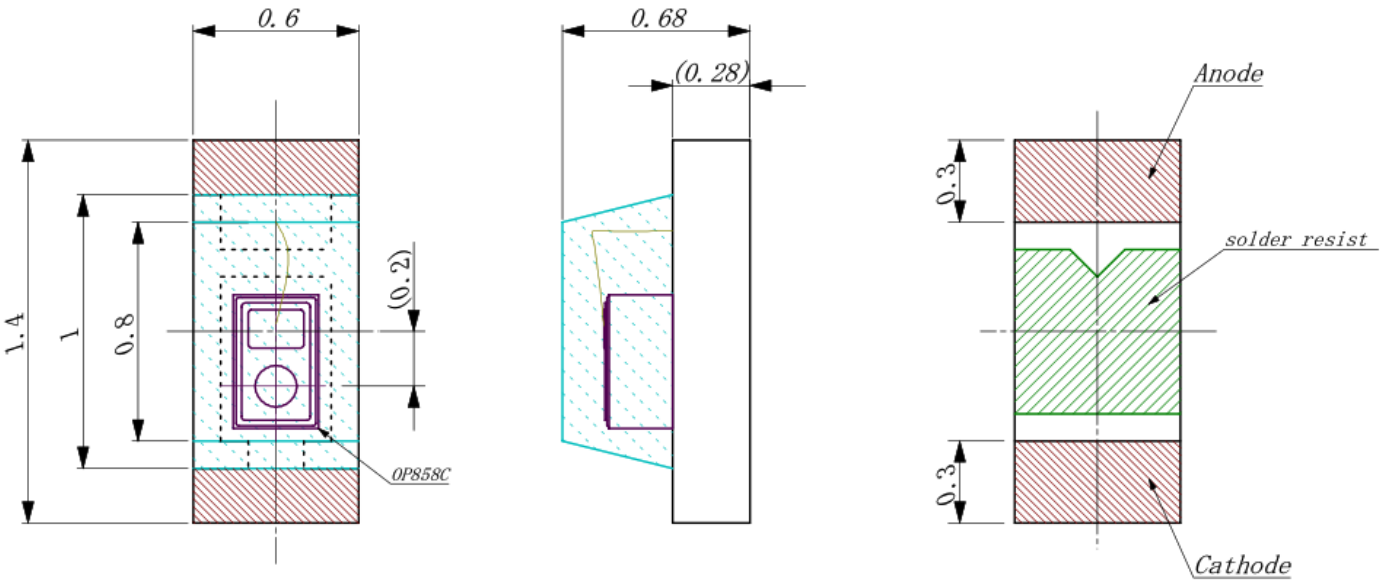
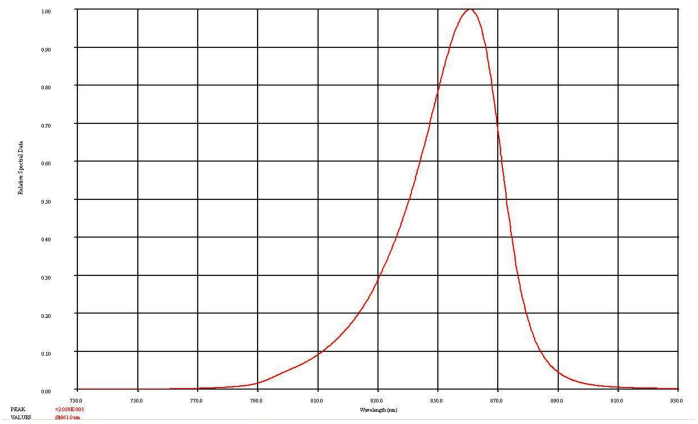
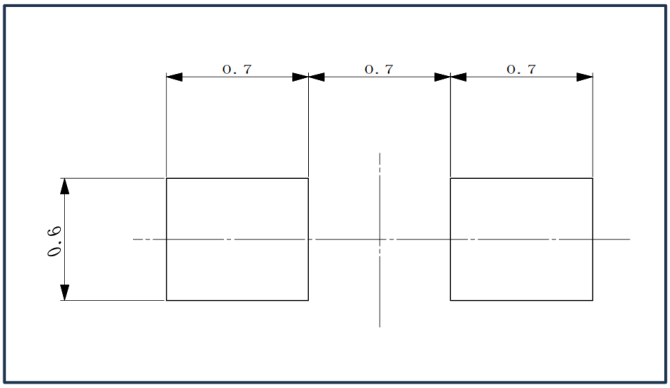
Package Drawing



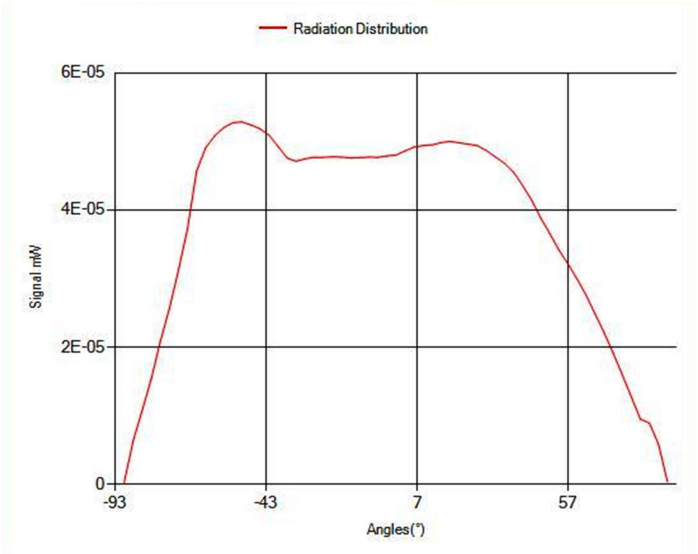
SPECTRAL RESPONSE



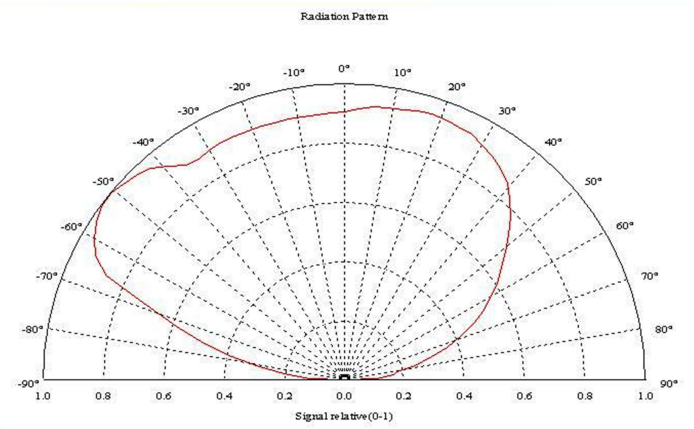
Recommended Soldering Pattern [mm]



RADIATION DISTRIBUTION



VIEW ANGLE



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