

Peak Emission Wavelength: 850nm

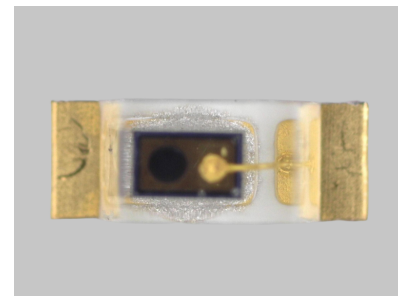
The 850nm emitter is designed for applications requiring high output and precise optical / mechanical axis alignment. Custom package solutions and sorting are available.

FEATURES

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

APPLICATIONS

- > Industrial Equipment
- > Machine Vision
- > Optical Encoders



Absolute Maximum Ratings (Ta=25°C)



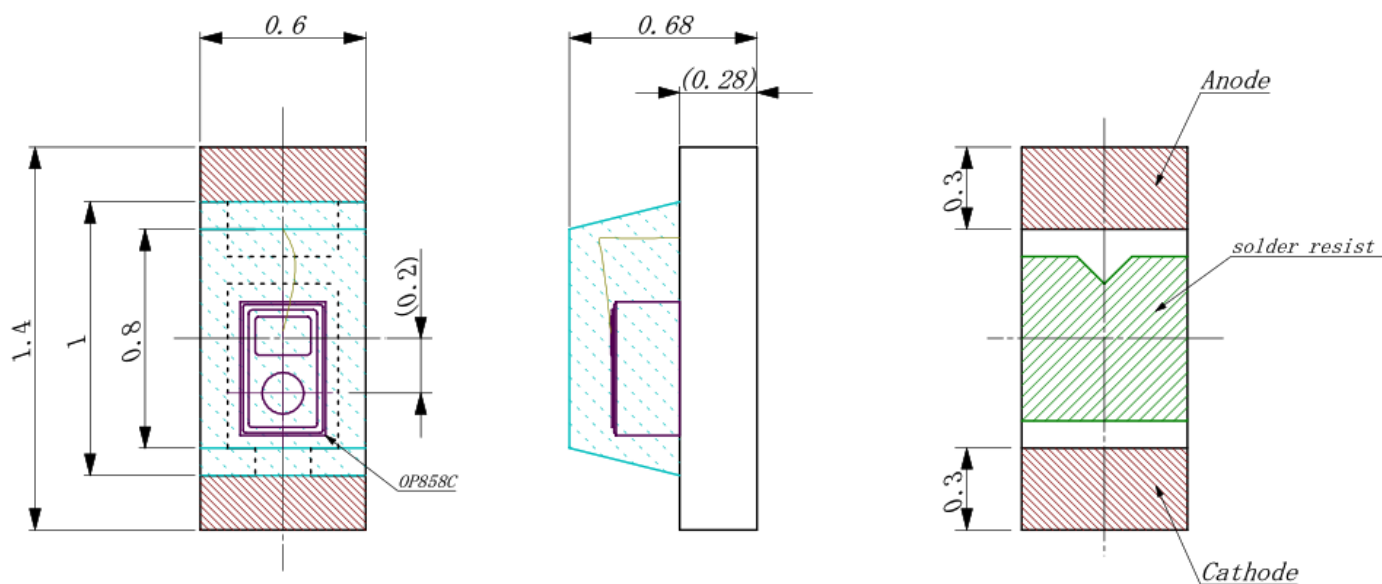
ITEMS	SYMBOL	RATINGS	UNIT
Forward Current	IF	100	mA
Reverse Voltage	VR	3	V
Operating Temperature Range	Topr	-20 ~ +80	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C

*1: Tw=10 μ sec, T=10msec.

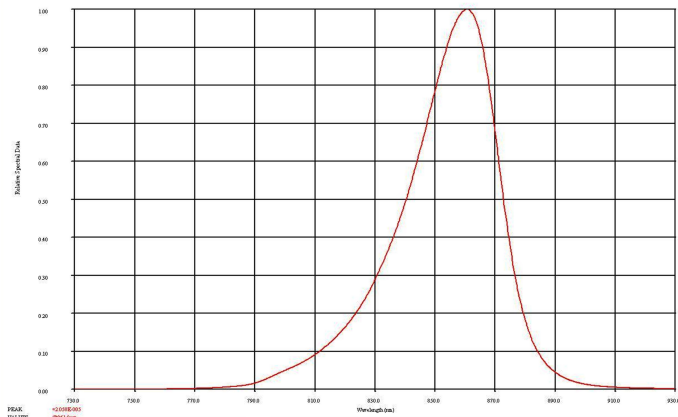
Electrical & Optical Characteristics (Ta = 25°C)

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	μ A
Peak Emission Wavelength	λ_p	IF=50mA	--	850	--	nm
Spectral Line Half Width	$\Delta\lambda$	IF=50mA	--	33	--	nm
Half Intensity Beam Angle	$\frac{1}{2}\theta$	IF=50mA	--	± 70	--	deg

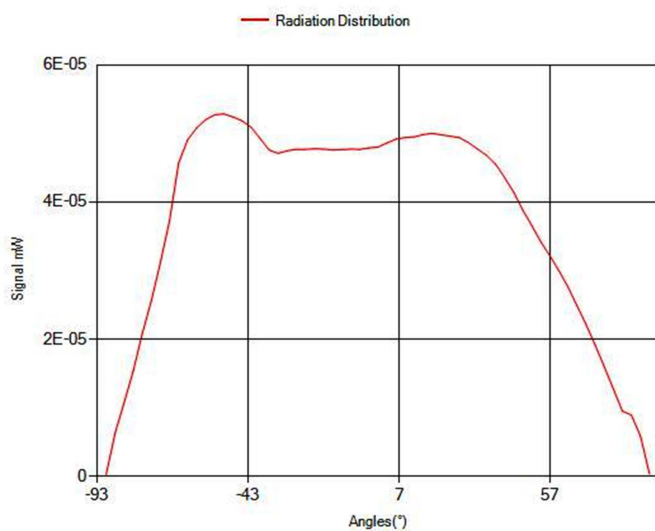
Package Drawing



SPECTRAL RESPONSE



RADIATION DISTRIBUTION



VIEW ANGLE

