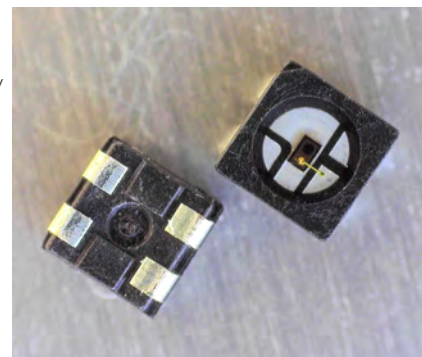


Peak Sensitivity Wavelength: 855nm

The 855nm Point Source Series is designed for applications requiring high output and precise optical / mechanical axis alignment. It is packaged in a 2.1mm square SMD black package with clear encapsulation.



FEATURES

- > 2.1mm square SMD package
- > Emitting Window Dia. 150um
- > Wide Beam Angle

APPLICATIONS

- > Optical Switches / Security Systems
- > Linear & Rotary Encoder
- > Remote Controls / Robotics

Absolute Maximum Ratings (Ta=25°C)



ITEMS	SYMBOL	RATINGS	UNIT
Forward Current	IF	60	mA
Forward Current (Pulse)*1	IFP	400	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	110	mW
Operating Temperature Range	Topr	-20 ~ +80	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C
Lead Soldering Temperature	Tls	260	°C

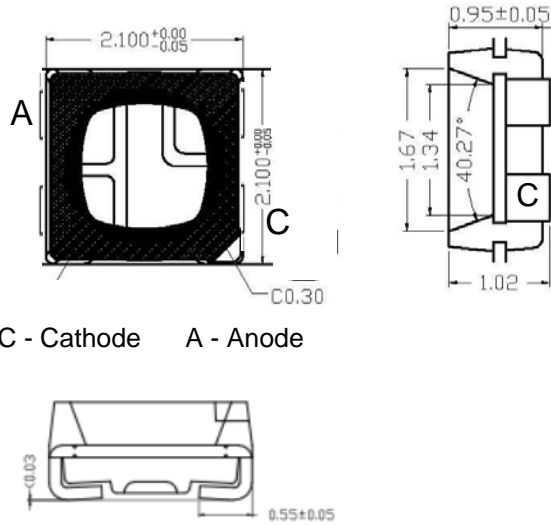
*1: Tw<10usec T=10mS

Electrical & Optical Characteristics (Ta = 25°C)

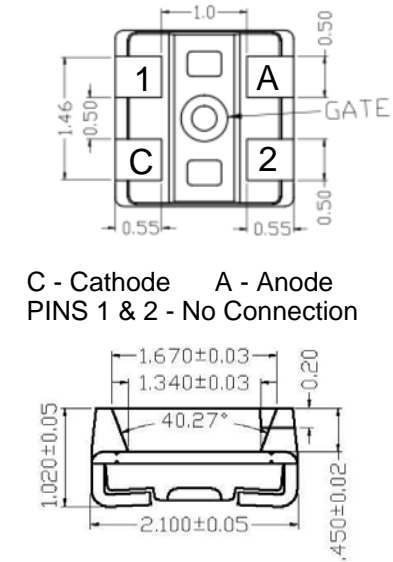
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=50mA	--	3.5	--	mW
Forward Voltage	VF	IF=50mA	--	1.60	2.2	V
Reverse Current	IR	VR=5V	--	--	100	μA
Peak Emission Wavelength	λp	IF=50mA	--	855	--	nm
Spectral Line Half Width	Δλ	IF=50mA	--	30	--	nm
Half Intensity Beam Angle	Θ	IF=50mA	--	+/-60	--	deg

Note: Care is required during assembly and when handling the component so as to not damage the surface of the LED.
This may affect the appearance and optical performance.

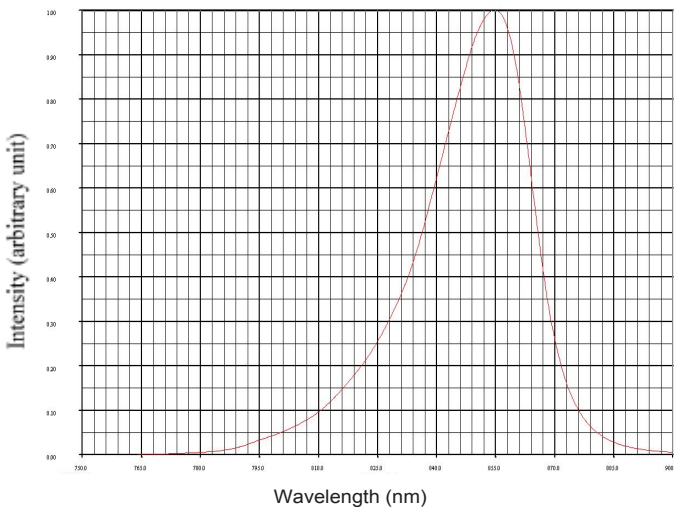
Top Side



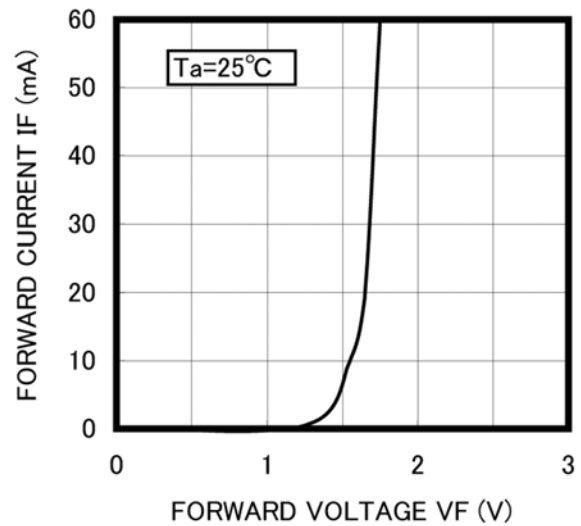
Bottom Side



Spectral Response

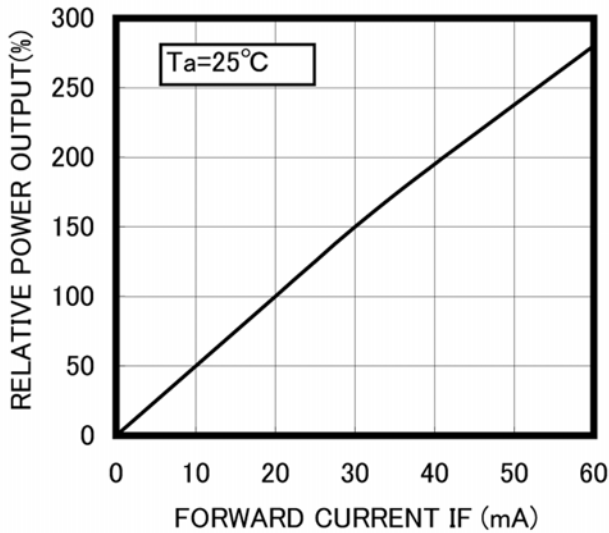


FORWARD I-V CHARACTERISTICS

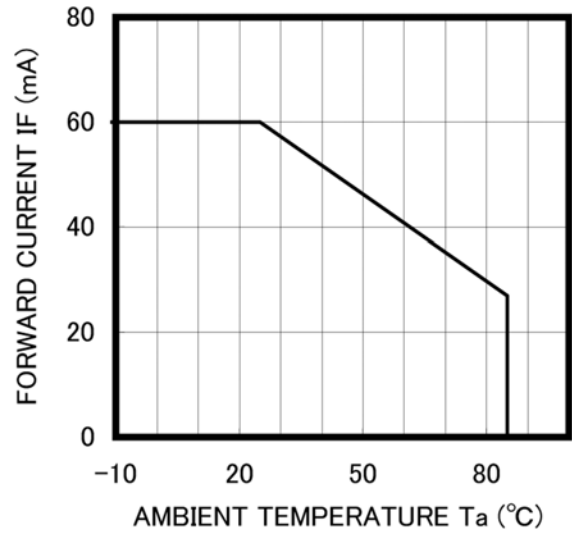


Unit: mm, Tolerance: ± 0.2

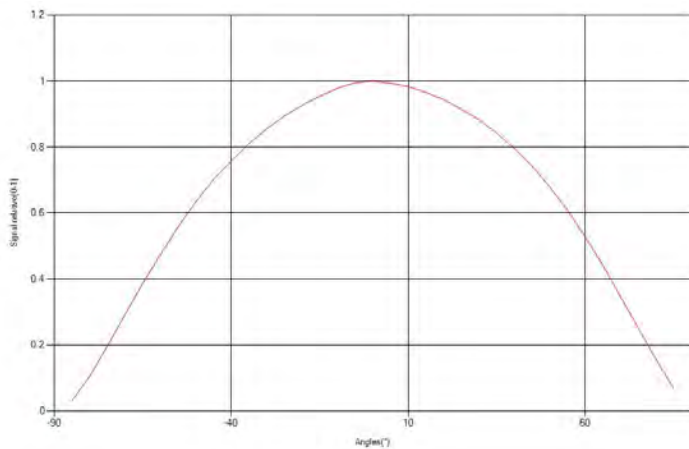
RELATIVE POWER vs FORWARD CURRENT



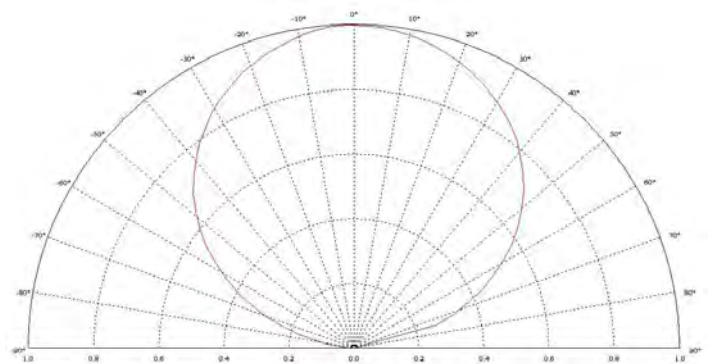
THERMAL DERATING CURVE



Radiation Distribution



View Angle



Solder Profile

