

### Peak Emission Wavelength: 980nm

The 980nm 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

- > 3.5x2.2x1.24 Flat Top Ceramic SMT
- > Emitting Window Diameter  $\Phi$  25 $\mu$ m
- > High Reliability / High Output Power

#### APPLICATIONS

- > Optical Scanning
- > Linear & Rotary Encoder
- > Edge Sensing
- > Optical Sensors



### Absolute Maximum Ratings (Ta=25°C)

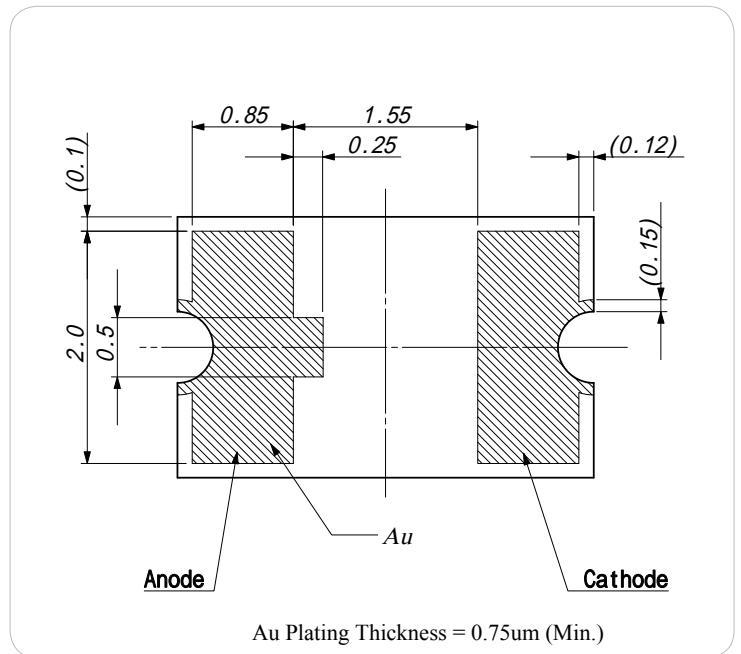
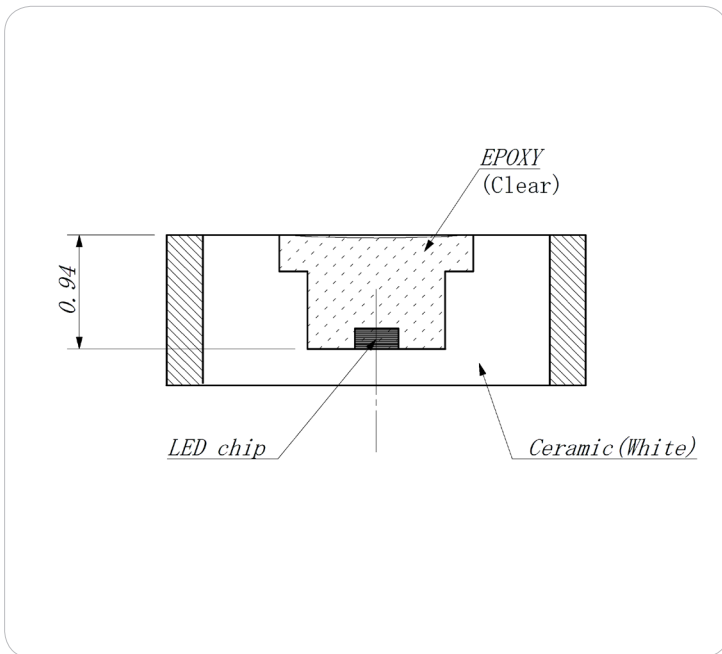
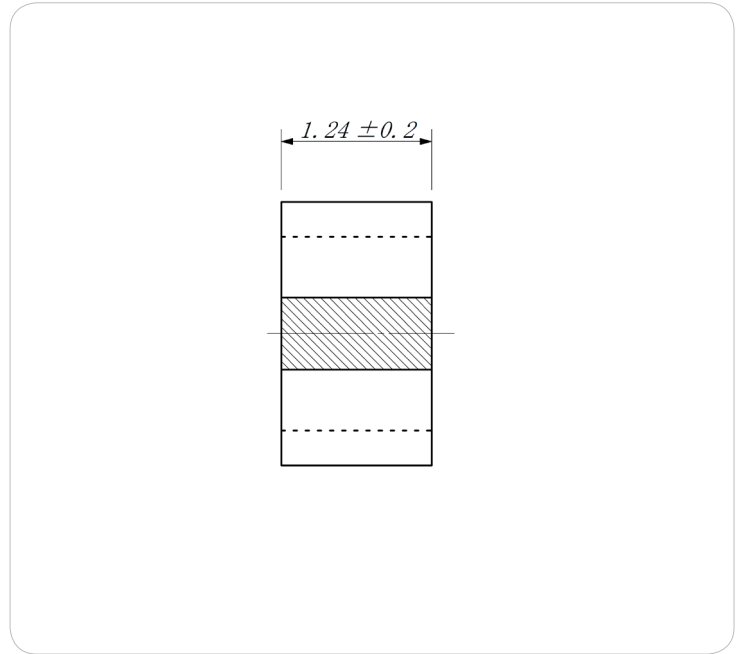
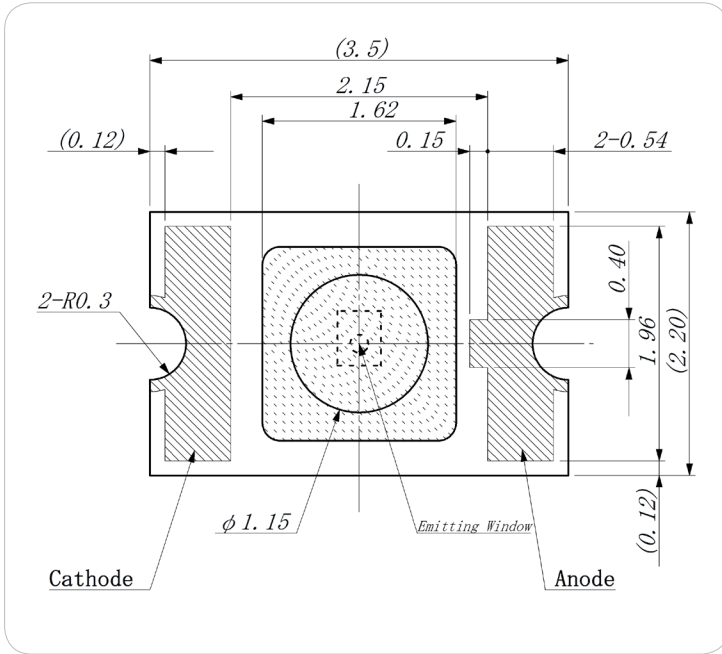


ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	30	mA
Forward Current (Pulse)*1	IFP	0.3	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	50	mW
Operating Temperature Range	Topr	-20 ~ +85	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C

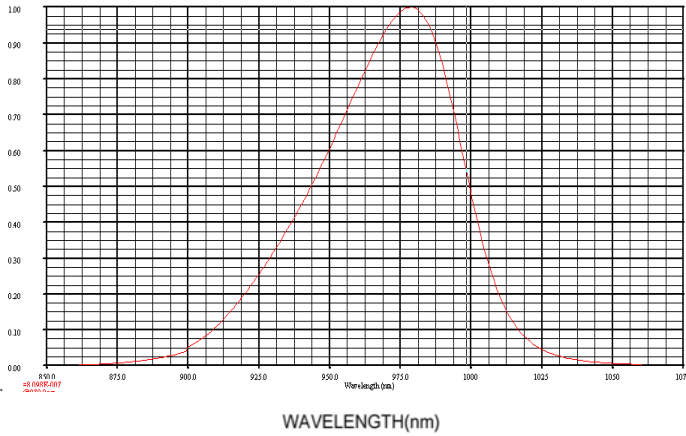
\*1: Tw=10 $\mu$ sec, T=10msec.

### Electrical & Optical Characteristics (Ta = 25°C)

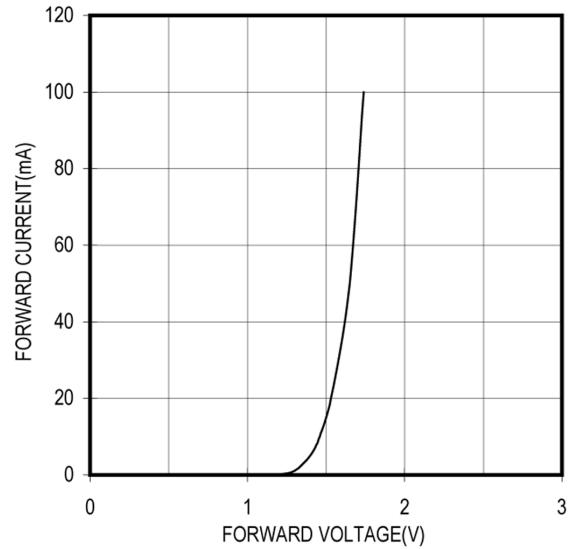
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=20mA	--	0.45	--	mW
Forward Voltage	VF	IF=20mA	--	1.45	--	V
Reverse Current	IR	VR=5V	--	--	100	$\mu$ A
Peak Emission Wavelength	$\lambda_p$	IF=20mA	--	980	--	nm
Spectral Line Half Width	$\Delta\lambda$	IF=20mA	--	55	--	nm
Half Intensity Beam Angle	$\Theta$	IF=20mA	--	$\pm 60$	--	deg



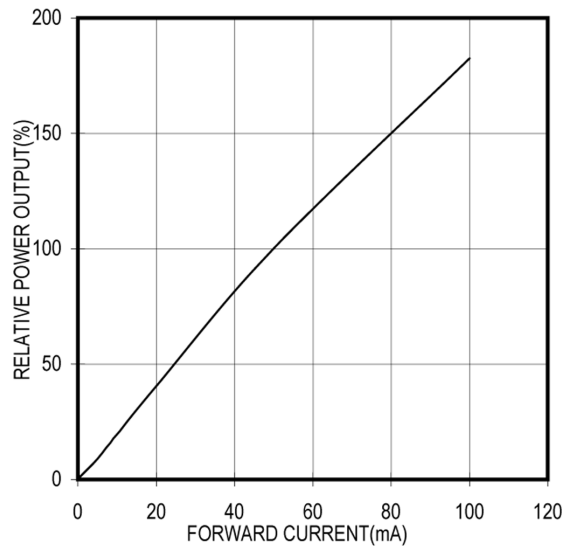
SPECTRAL OUTPUT



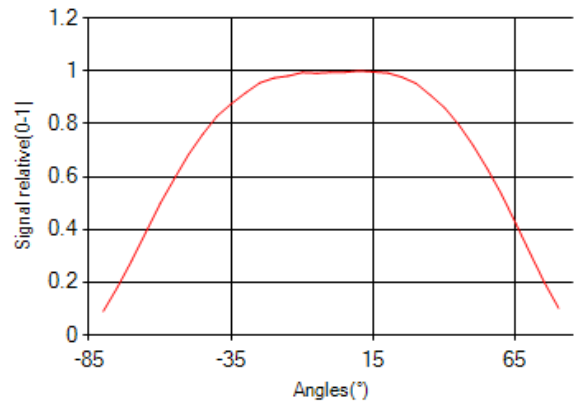
FORWARD I-V CHARACTERISTICS



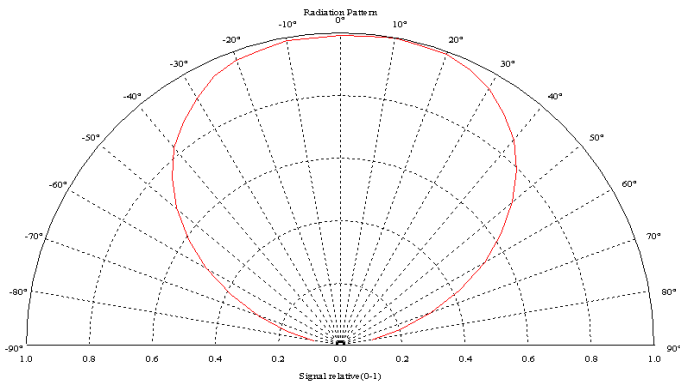
RELATIVE POWER vs FORWARD CURRENT



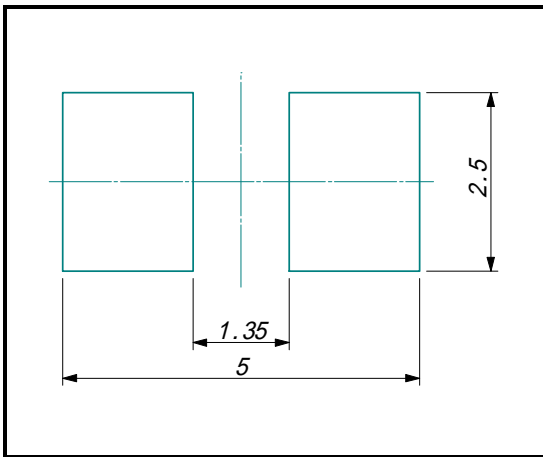
Radiation Distribution



**RADIATION PATTERN**



**Recommended Soldering Pattern [mm]**



The information contained herein is subject to change without notice.

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