

### Peak Emission Wavelength: 610nm

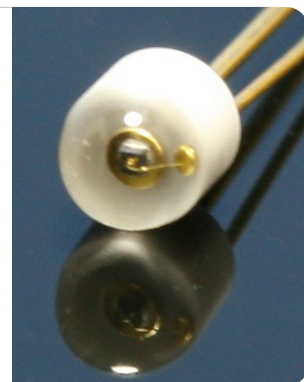
The 610nm visible emitter series is designed for applications requiring high output and precise optical / mechanical axis alignment. Custom package solutions and sorting are available.

#### FEATURES

- > Ceramic Package
- > High Output Power
- > Compact
- > Wide Viewing Angle

#### APPLICATIONS

- > Display
- > Indicators
- > Light Source for Sensor
- > Optical Switches



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

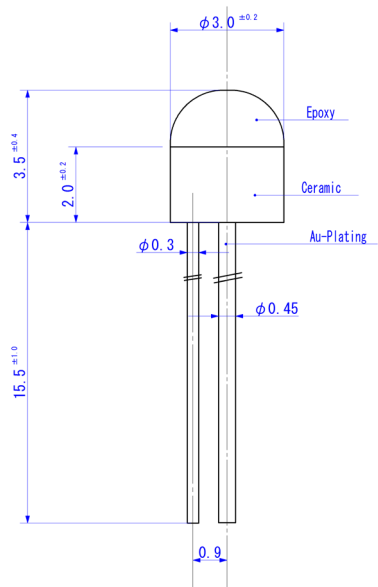


ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	30	mA
Forward Current (Pulse)*1	IFP	0.3	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	75	mW
Operating Temperature Range	To <sub>opr</sub>	-20 ~ +80	°C
Storage Temperature Range	T <sub>stg</sub>	-30 ~ +100	°C
Junction Temperature	T <sub>j</sub>	100	°C
Lead Soldering Temperature*2	T <sub>ls</sub>	260	°C

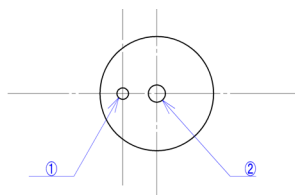
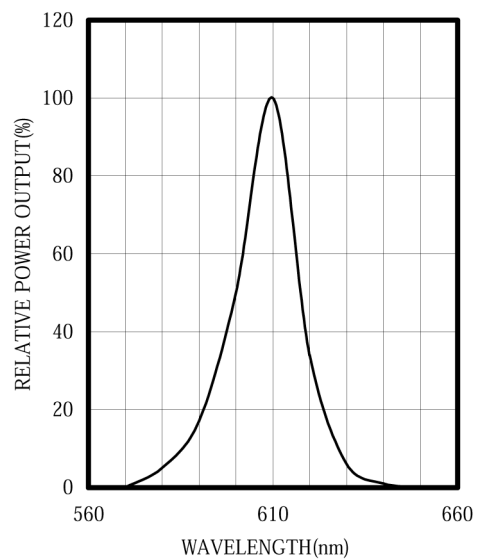
\*1: Tw=10μsec, T=10msec. \*2: Time 5 Sec max, Position: Up to 3mm from the body.

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

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=20mA	0.9	1.7	--	mW
Forward Voltage	VF	IF=20mA	--	2.0	2.4	V
Reverse Current	IR	VR=5V	--	--	100	μA
Peak Emission Wavelength	λ <sub>p</sub>	IF=20mA	--	610	--	nm
Spectral Line Half Width	Δλ	IF=20mA	--	17	--	nm
Half Intensity Beam Angle	Θ	IF=20mA	--	±80	--	deg
Rise Time	Tr	IFP=20mA	--	--	--	nS
Fall Time	Tf	IFP=20mA	--	--	--	nS
Junction Capacitance	C <sub>j</sub>	1MHz, V=0V	--	20	--	pF
Temperature Coefficient of PO	P/T	IF=10mA	--	-0.8	--	%/°C
Temperature Coefficient of VF	V/T	IF=10mA	--	-1.7	--	mV/°C

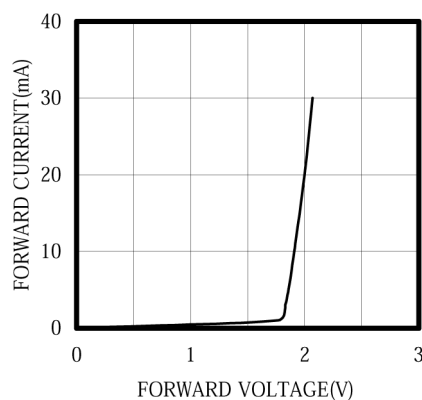


SPECTRAL OUTPUT



① Anode      ② Cathode

FORWARD I-V CHARACTERISTICS



Unit: mm, Tolerance: ±0.2

