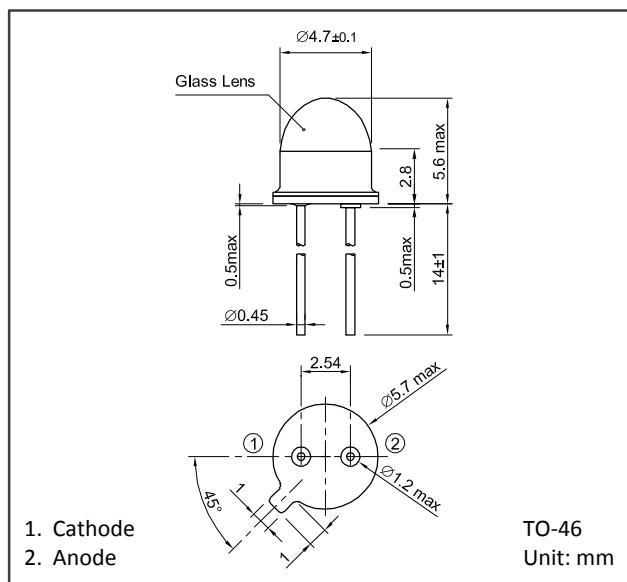


Features

- Parallel beam
- High output power
- Highly reliable hermetic seal
- Uniform light intensity distribution

Applications

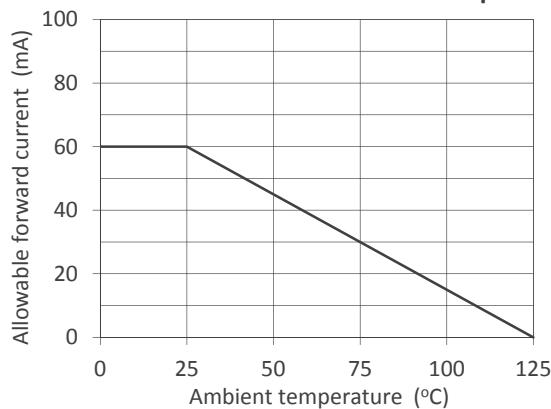
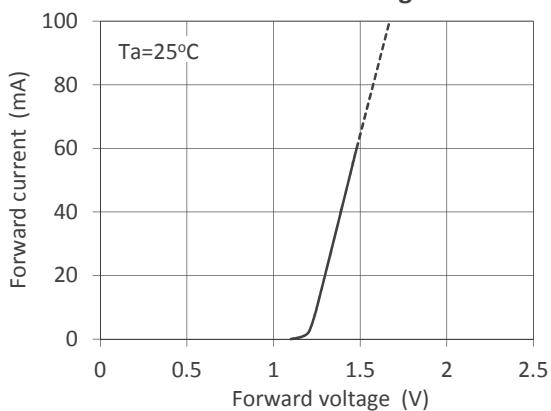
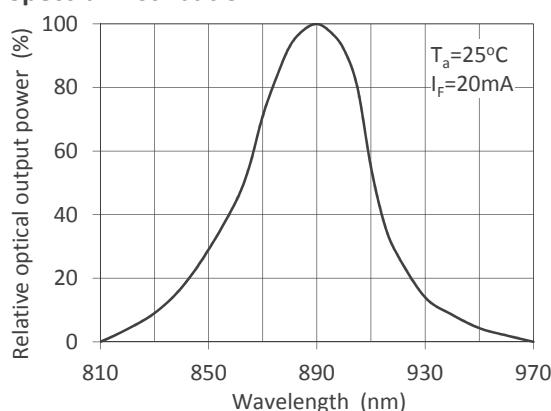
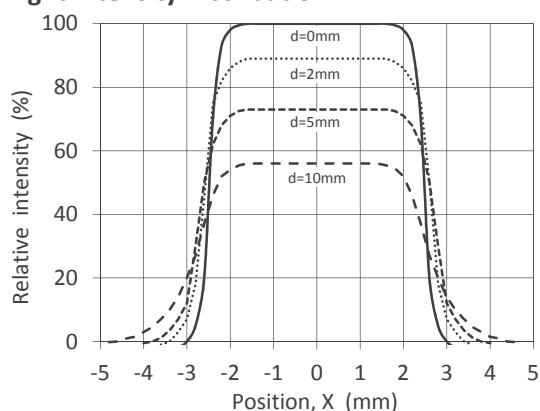
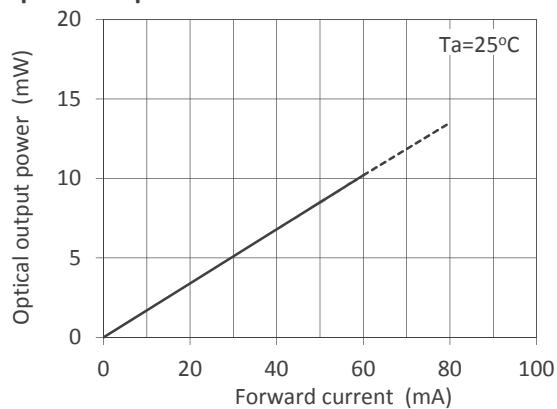
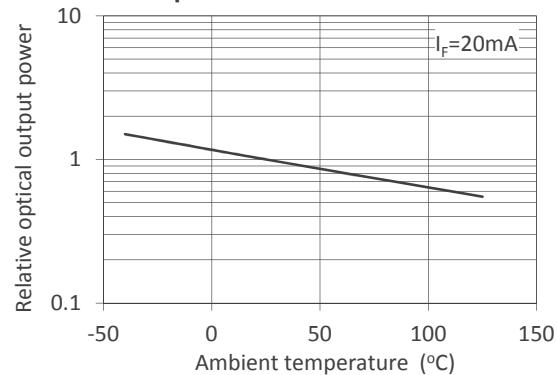
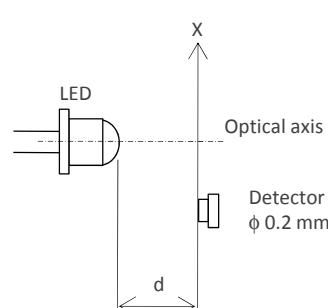
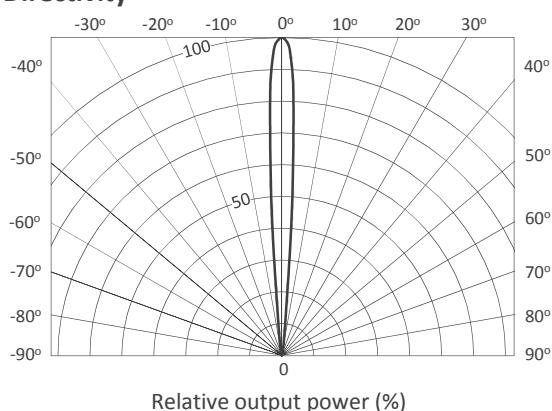
- Optical switches
- Rotary encoders
- Linear encoders
- Optical sensors

**Absolute Maximum Ratings**

Parameter	Symbol	Value	Unit	Note
Forward current	I_F	60	mA	Ta=25°C
Peak forward current	I_{FP}	0.6	A	Pulse width=100μs Duty ratio=0.1%
Reverse voltage	V_R	6	V	
Power dissipation	P_D	100	mW	Ta=25°C
Operating temperature	T_{opr}	-40 to +125	°C	Avoid dew condensation
Storage temperature	T_{stg}	-55 to +125	°C	Avoid dew condensation

Electrical and Optical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward voltage	V_F	-	1.3	1.5	V	$I_F=20\text{mA}$
Reverse current	I_R	-	-	10	μA	$V_R=6\text{V}$
Optical output power	P_O	-	3.0	-	mW	$I_F=20\text{mA}$
Peak emission wavelength	λ_p	-	890	-	nm	$I_F=20\text{mA}$
Spectral bandwidth at 50%	$\Delta\lambda$	-	50	-	nm	$I_F=20\text{mA}$

Allowable Forward Current-Ambient Temperature**Forward Current - Forward Voltage****Spectral Distribution****Light Intensity Distribution****Optical Output Power - Forward Current****Relative Optical Output Power - Ambient Temperature****Directivity**Measurement setup of light intensity distribution

- Specifications , characteristics, data, materials, structures specified in this datasheet are subject to change without notice. Please refer to the latest specification before use of the products.
- Products listed in this datasheet comply with the RoHS Directive (EU2002/95/EC).

Opto-technologies for the Future



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