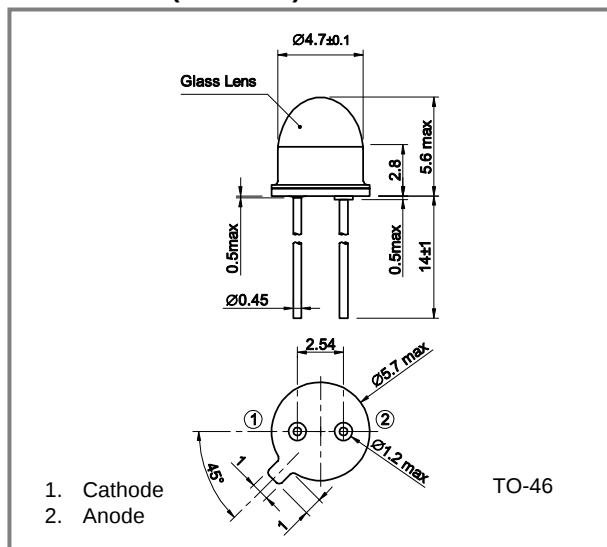


Features

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

Applications

- Optical switches
- Optical encoders
- Linear encoders
- Reflective sensors

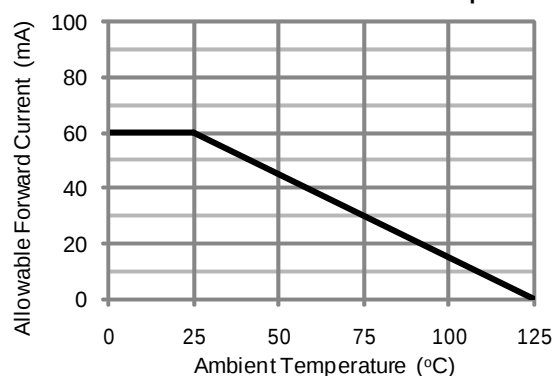
Dimensions (unit: mm)**Absolute Maximum Ratings**

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

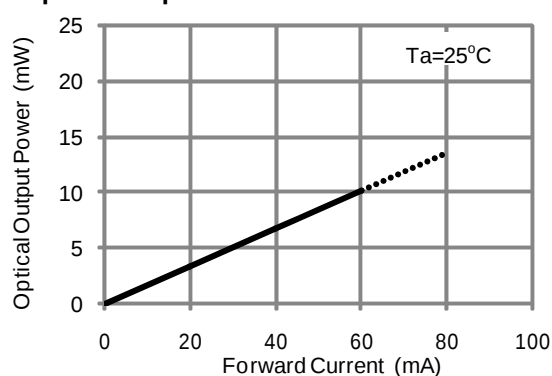
Electrical and Optical Characteristics ($T_a = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max	Unit	Test Conditions
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	$I_F = 20\text{mA}$

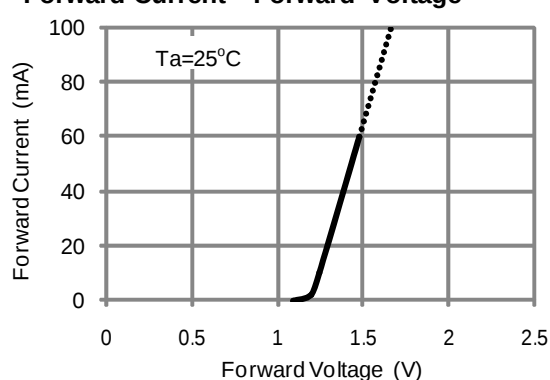
Allowable Forward Current - Ambient Temperature



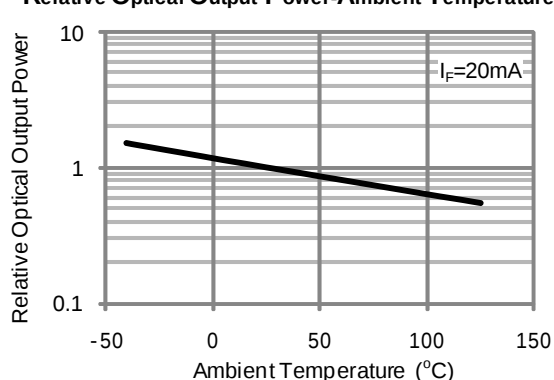
Optical Output Power - Forward Current



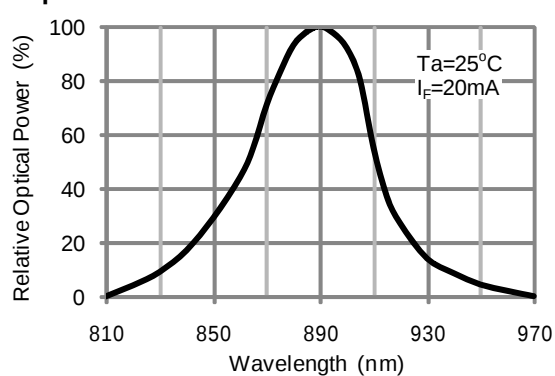
Forward Current - Forward Voltage



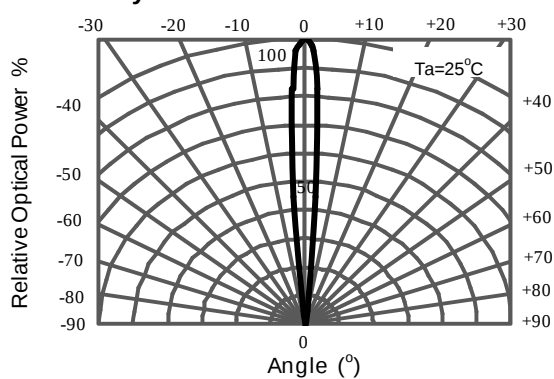
Relative Optical Output Power-Ambient Temperature



Spectral Distribution



Directivity



Light Intensity Distribution

