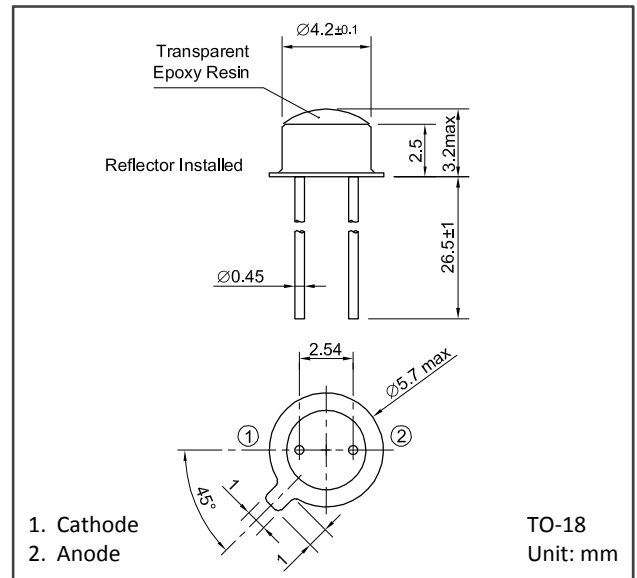


Features

- Transparent epoxy lens
- High output power
- Broad directivity
- Direct modulation

Applications

- Optical switches
- Optical encoders
- Optical instruments
- Automatic control apparatus
- Smoke sensors
- Photo-isolators

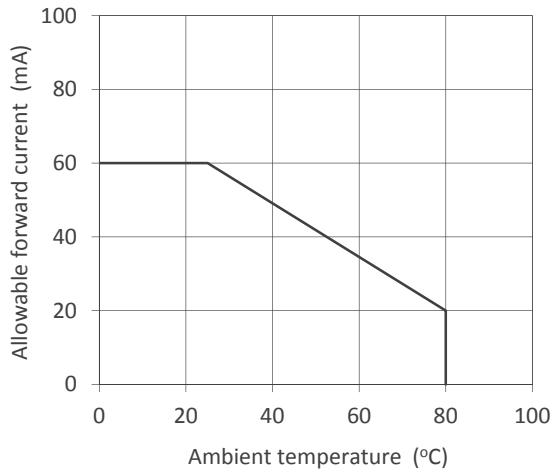
**Absolute Maximum Ratings**

Parameter	Symbol	Value	Unit	Note
Forward current	I_F	60	mA	Ta=25°C
Peak forward current	I_{FP}	1.0	A	Pulse width=100μs Duty ratio=0.1%
Reverse voltage	V_R	6	V	
Power dissipation	P_D	90	mW	Ta=25°C
Operating temperature	T_{opr}	-20 to +80	°C	Avoid dew condensation
Storage temperature	T_{stg}	-30 to +100	°C	Avoid dew condensation

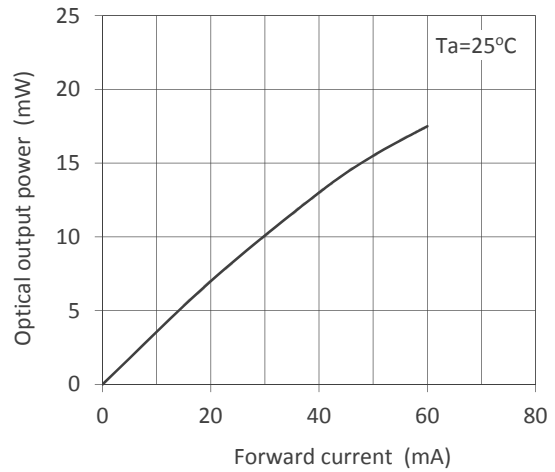
Electrical and Optical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward voltage	V_F	-	1.4	1.6	V	$I_F=50\text{mA}$
Reverse current	I_R	-	-	10	μA	$V_R=6\text{V}$
Optical output power	P_O	-	15	-	mW	$I_F=50\text{mA}$
Peak emission wavelength	λ_p	-	890	-	nm	$I_F=50\text{mA}$
Spectral bandwidth at 50%	$\Delta\lambda$	-	50	-	nm	$I_F=50\text{mA}$

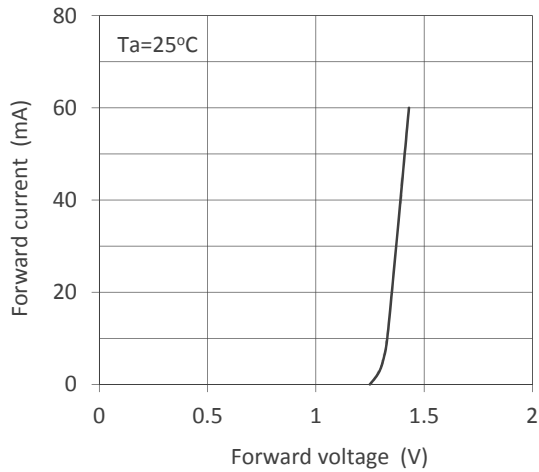
Allowable Forward Current-Ambient Temperature



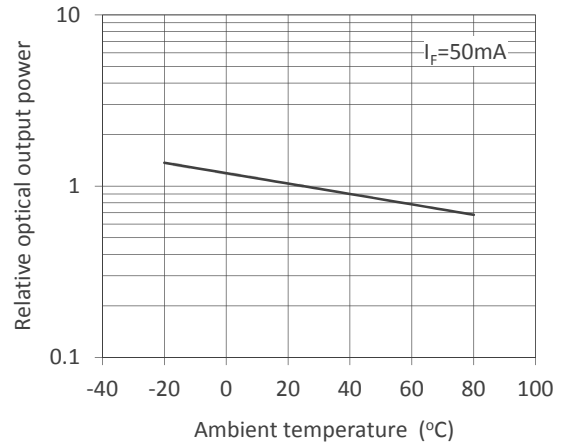
Optical Output Power - Forward Current



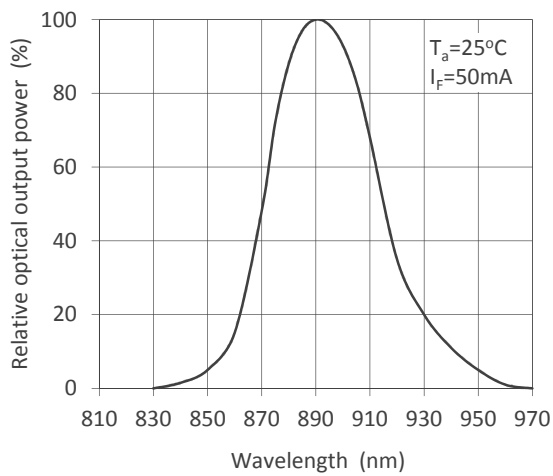
Forward Current - Forward Voltage



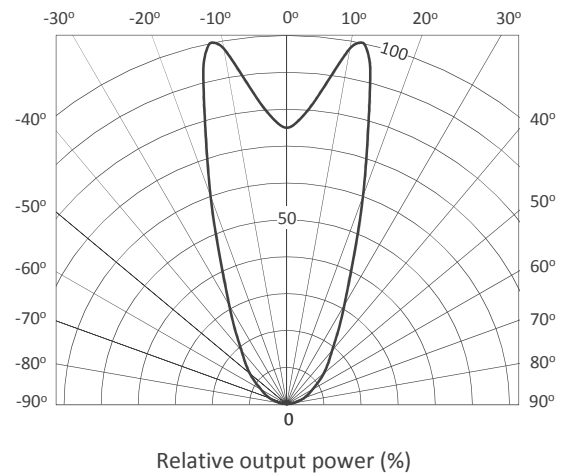
Relative Optical Output Power - Ambient Temperature



Spectral Distribution



Directivity



- 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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