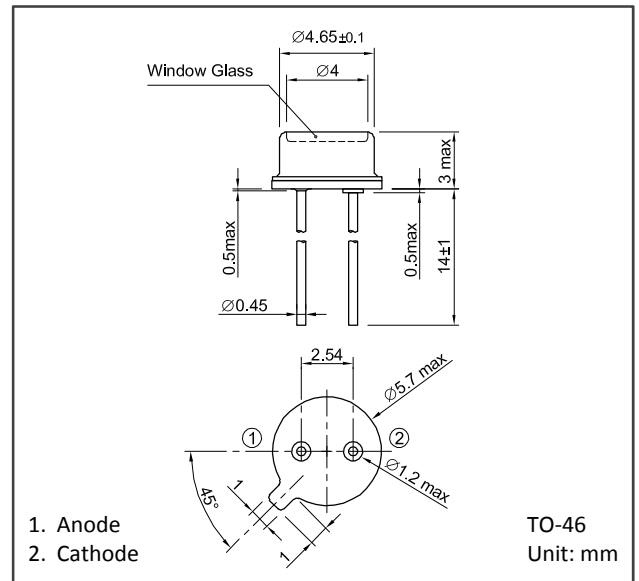


Features

- 80 μ m emitting area
- High reliability and long life

Applications

- High speed optical sensors
- Optical encoders

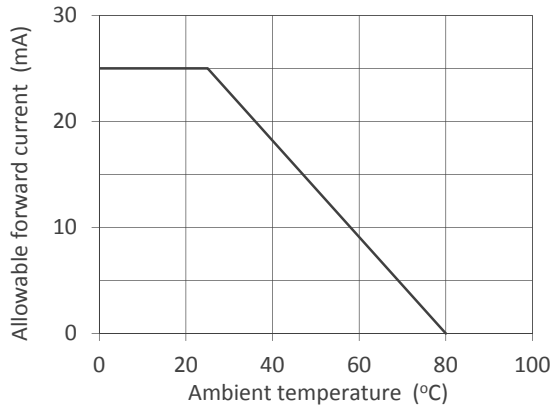
**Absolute Maximum Ratings**

Parameter	Symbol	Value	Unit	Note
Forward current	I_F	25	mA	$T_a=25^\circ\text{C}$
Reverse voltage	V_R	3	V	
Operating temperature	T_{opr}	-20 to +80	$^\circ\text{C}$	Avoid dew condensation
Storage temperature	T_{stg}	-30 to +100	$^\circ\text{C}$	Avoid dew condensation

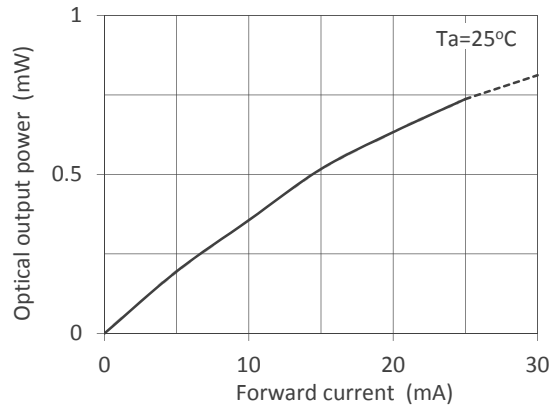
Electrical and Optical Characteristics ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward voltage	V_F	-	2.2	3.0	V	$I_F=20\text{mA}$
Reverse current	I_R	-	-	10	μA	$V_R=3\text{V}$
Optical output power	P_O	-	0.6	-	mW	$I_F=20\text{mA}$
Peak emission wavelength	λ_p	-	650	-	nm	$I_F=20\text{mA}$
Cutoff frequency	f_C	-	70	-	MHz	$I_F=20\text{mA}$

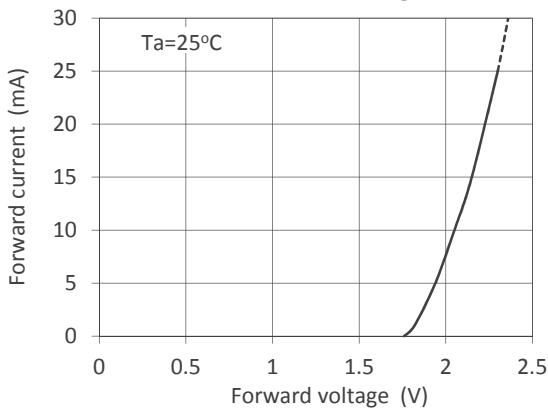
Allowable Forward Current-Ambient Temperature



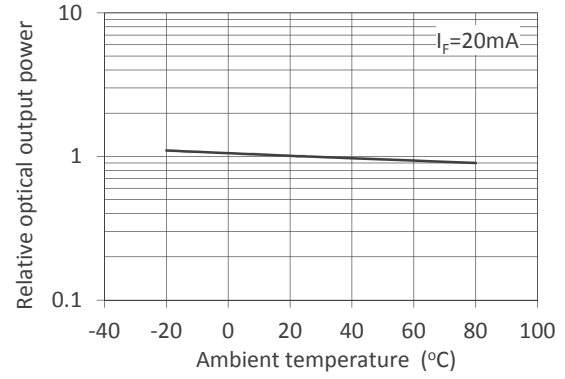
Optical Output Power - Forward Current



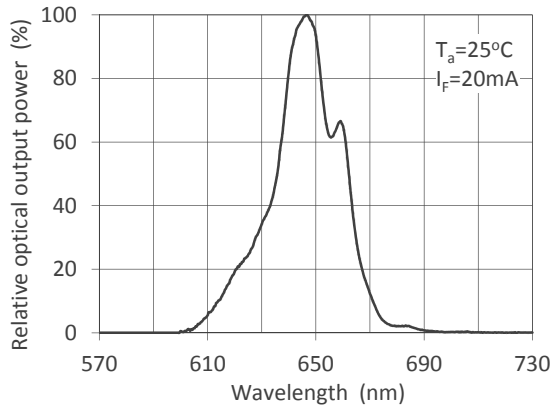
Forward Current - Forward Voltage



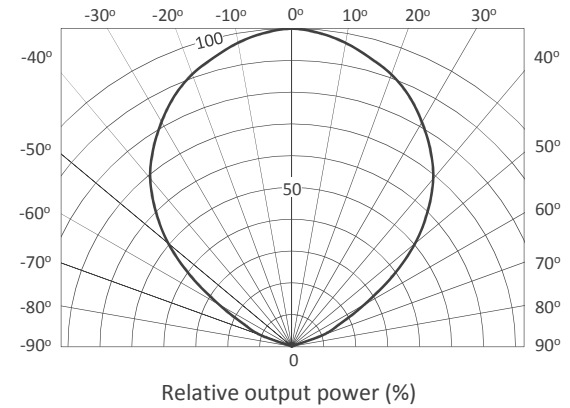
Relative Optical Output Power - Ambient Temperature



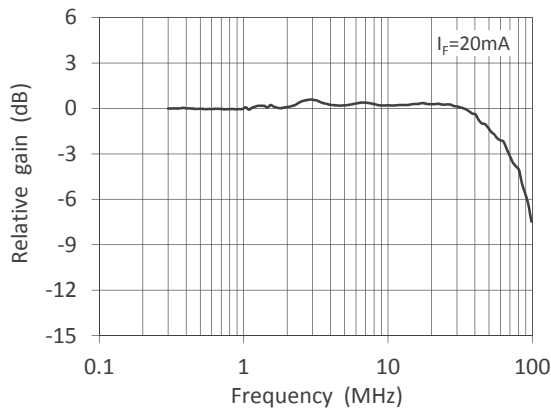
Spectral Distribution



Directivity



Frequency Response



- 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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