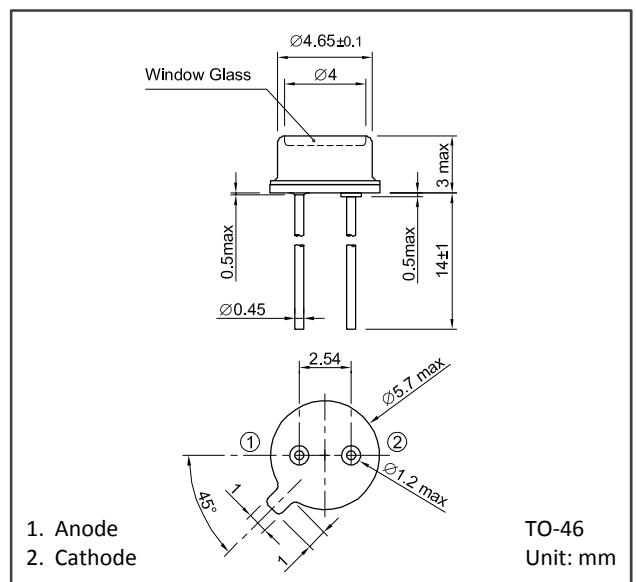


Features

- 160μm emitting area
- High reliability and long life

Applications

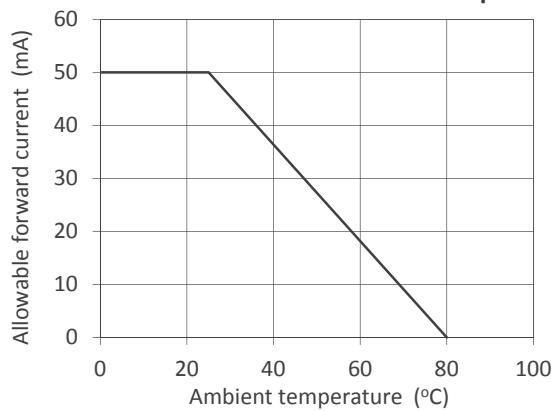
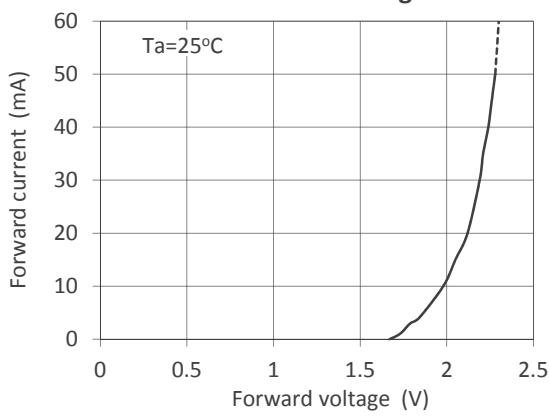
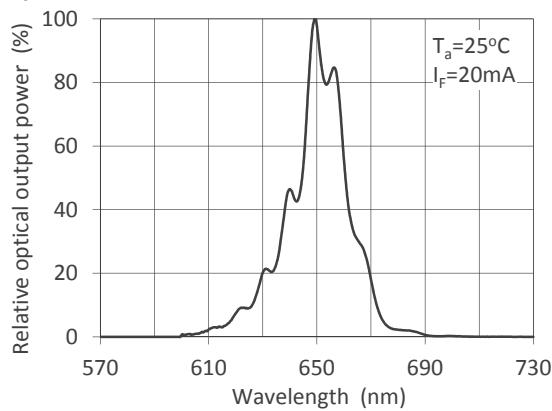
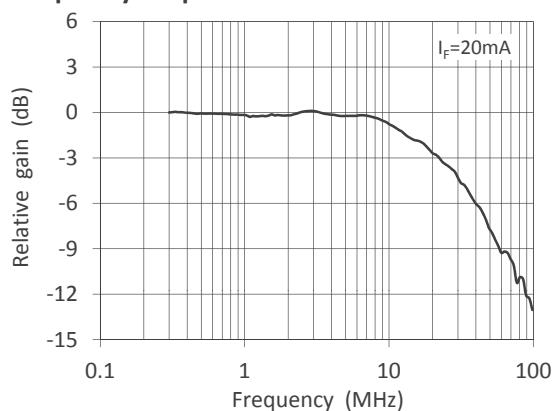
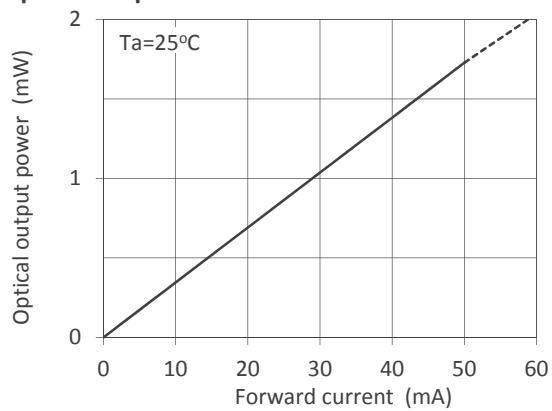
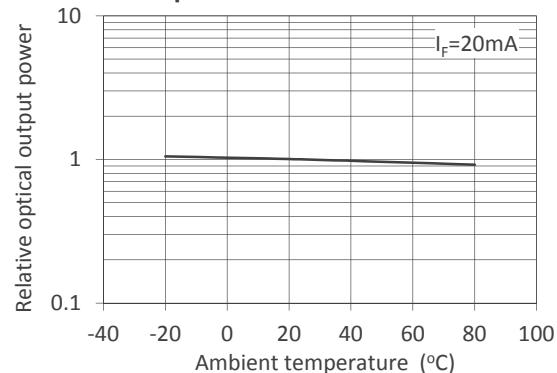
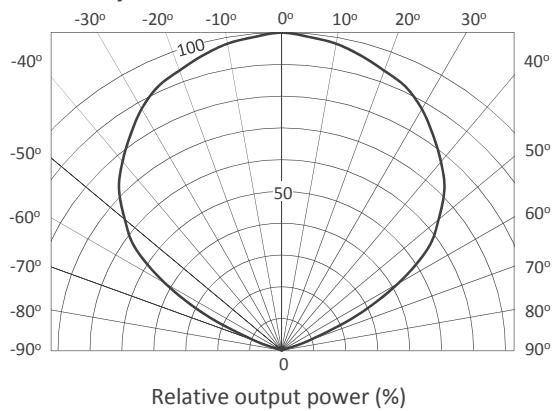
- High speed optical sensors
- Optical encoders

**Absolute Maximum Ratings**

Parameter	Symbol	Value	Unit	Note
Forward current	I_F	50	mA	T _a =25°C
Reverse voltage	V_R	3	V	
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	-	2.2	2.5	V	$I_F=20\text{mA}$
Reverse current	I_R	-	-	10	μA	$V_R=3\text{V}$
Optical output power	P_O	-	0.8	-	mW	$I_F=20\text{mA}$
Peak emission wavelength	λ_p	-	650	-	nm	$I_F=20\text{mA}$
Cutoff frequency	f_c	-	20	-	MHz	$I_F=20\text{mA}$

Allowable Forward Current-Ambient Temperature**Forward Current - Forward Voltage****Spectral Distribution****Frequency Response****Optical Output Power - Forward Current****Relative Optical Output Power - Ambient Temperature****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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