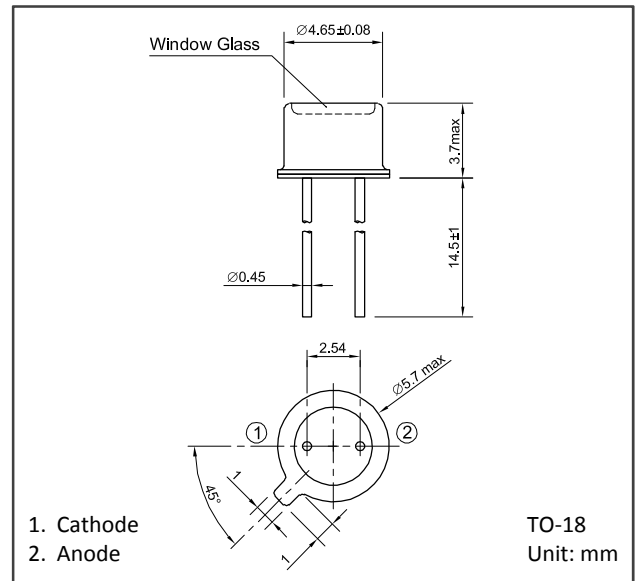


**Features**

- Peak emission wavelength  $\lambda_p=405\text{nm}$
- Highly reliable hermetic seal with flat window
- Longer life
- Dome lens type available
- Epoxy mold type available

**Applications**

- Optical instruments
- Fluorescent substance detection
- Medical applications

**Absolute Maximum Ratings**

Parameter	Symbol	Value	Unit	Note
Forward current	$I_F$	30	mA	$T_a=25^\circ\text{C}$
Peak forward current	$I_{FP}$	0.2	A	Pulse width=100 $\mu\text{s}$ Duty ratio=0.1%
Reverse voltage	$V_R$	5	V	
Power dissipation	$P_D$	120	mW	$T_a=25^\circ\text{C}$
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
Soldering temperature	$T_{sol}$	260	$^\circ\text{C}$	Max 5 sec.

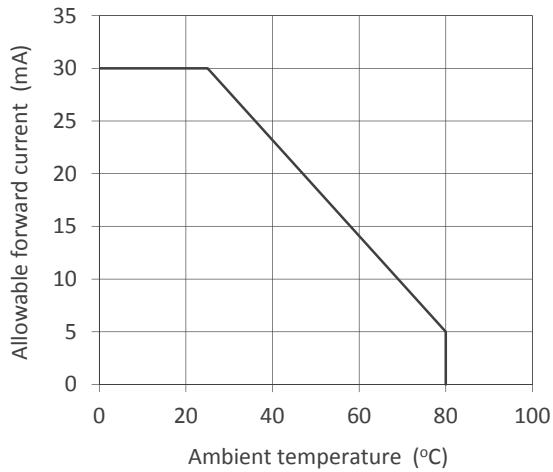
**Electrical and Optical Characteristics** ( $T_a=25^\circ\text{C}$  unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward voltage	$V_F$	-	3.3	4.0	V	$I_F=20\text{mA}$
Reverse current	$I_R$	-	-	10	$\mu\text{A}$	$V_R=5\text{V}$
Optical output power	$P_O$	-	5	-	mW	$I_F=20\text{mA}$
Peak emission wavelength	$\lambda_p$	395	405	415	nm	$I_F=20\text{mA}$
Spectral bandwidth at 50%	$\Delta\lambda$	-	15	-	nm	$I_F=20\text{mA}$
Half angle	$2\theta$	-	100	-	deg.	

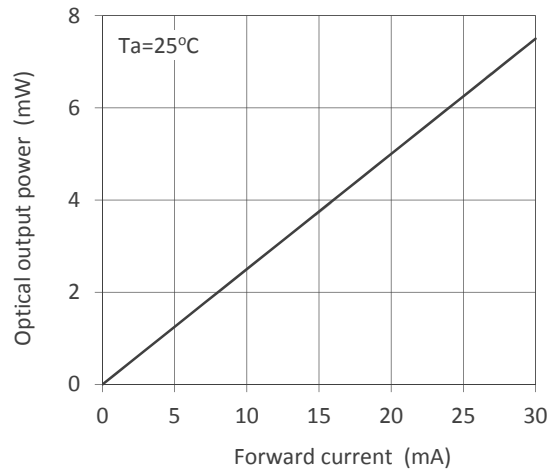


Avoid direct eye exposure to UV light.  
Keep out of reach of children.

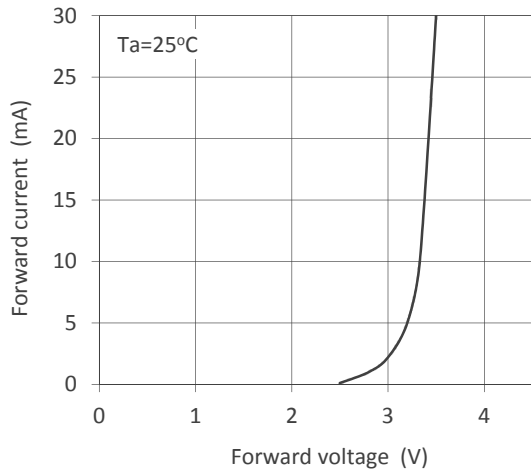
Allowable Forward Current-Ambient Temperature



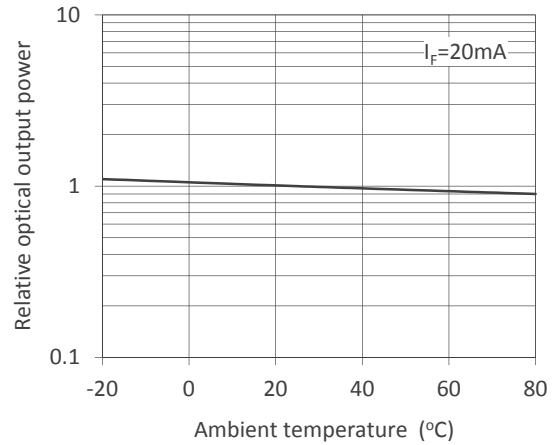
Optical Output Power - Forward Current



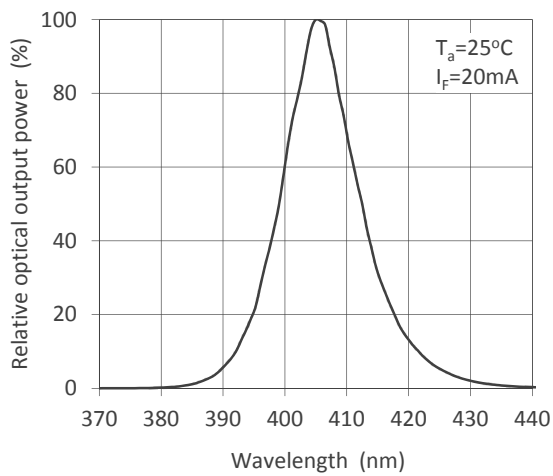
Forward Current - Forward Voltage



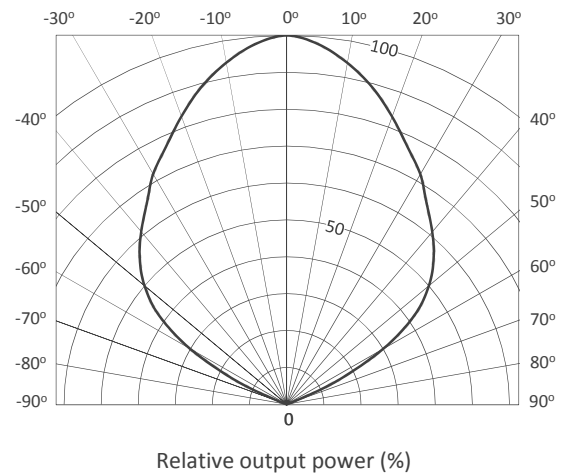
Relative Optical Output Power - Ambient Temperature



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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