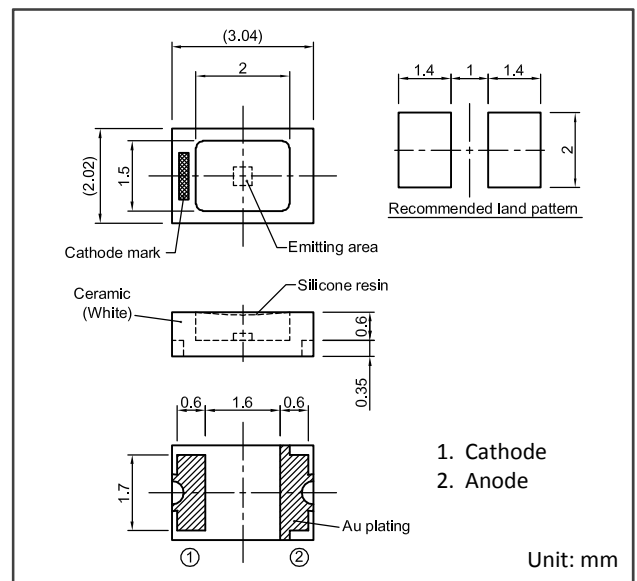


Features

- Peak emission wavelength $\lambda_p=405\text{nm}$
- SMD type package
- Silicone resin potting

Applications

- Optical instruments
- Photocatalytic reactions
- 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 μs 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.

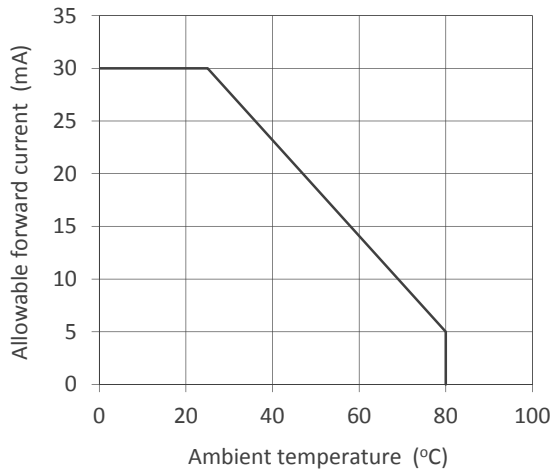
Electrical and Optical Characteristics ($T_a=25^\circ\text{C}$ unless otherwise noted)

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	μA	$V_R=5\text{V}$
Optical output power	P_O	-	13	-	mW	$I_F=20\text{mA}$
Peak emission wavelength	λ_p	395	405	415	nm	$I_F=20\text{mA}$
Spectral bandwidth at 50%	$\Delta\lambda$	-	12	-	nm	$I_F=20\text{mA}$
Half angle	2θ	-	120	-	deg.	

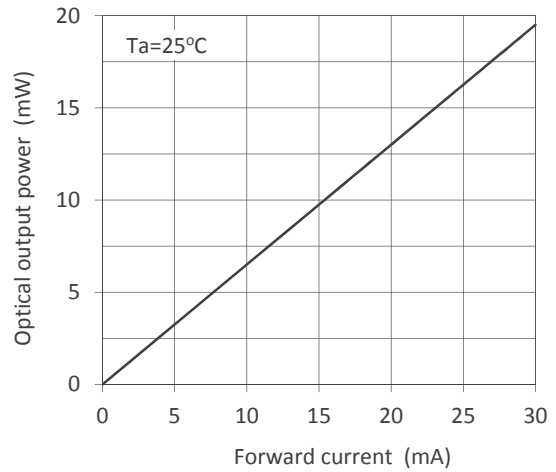


Avoid direct eye exposure to UV light.
Keep out of reach of children.

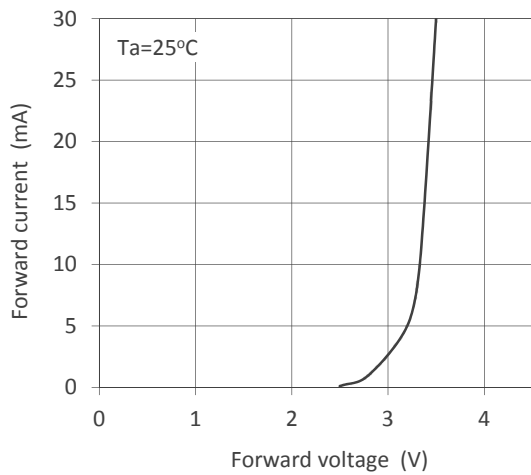
Allowable Forward Current-Ambient Temperature



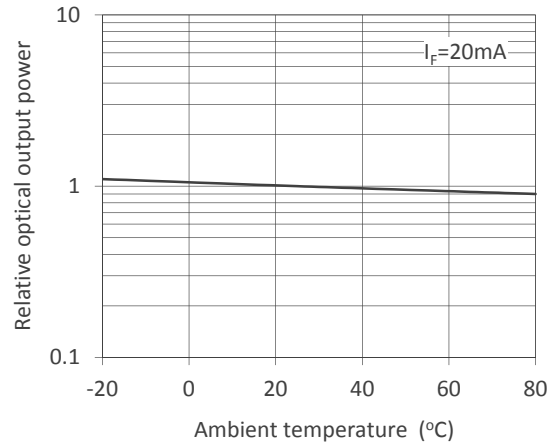
Optical Output Power - Forward Current



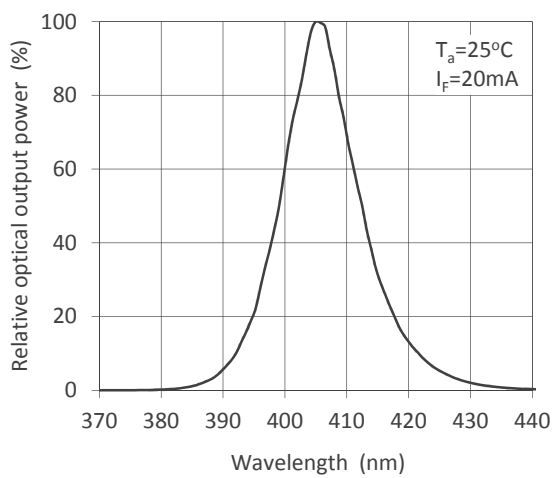
Forward Current - Forward Voltage



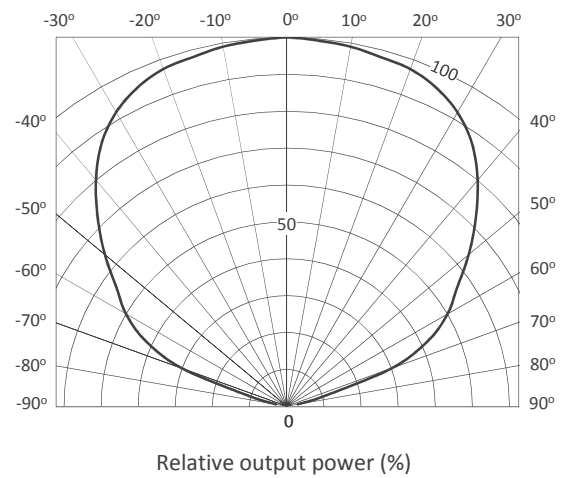
Relative Optical Output Power - Ambient Temperature



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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