

InGaN Ultraviolet LED

KED372UH

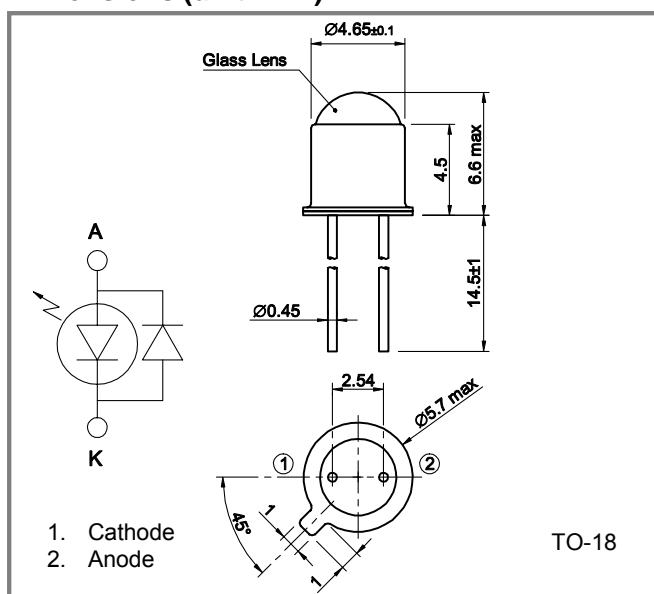
Features

- Peak emission wavelength $\lambda_p = 373\text{nm}$
- Highly reliable hermetic seal
- Longer life

Applications

- Optical instruments
- Photocatalytic reactions
- Fluorescent substance detection
- Medical applications

Dimensions (unit: mm)




Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Note
Forward current	I_F	30	mA	
Peak forward current	I_{FP}	0.2	A	Pulse width=100 μ s, Duty ratio=0.1%
Reverse current	I_R	100	mA	
Power dissipation	P_D	120	mW	
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 (Ta=25 $^{\circ}\text{C}$ unless otherwise noted)

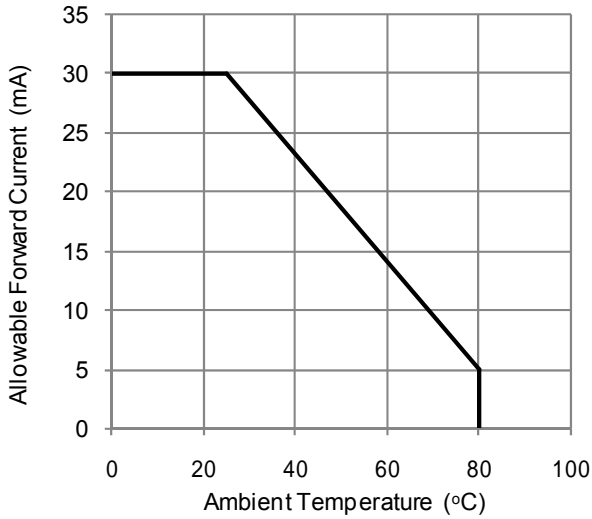
Parameter	Symbol	Min.	Typ.	Max	Unit	Test Conditions
Forward voltage	V_F	-	3.6	4.5	V	$I_F=20\text{mA}$
Reverse voltage	V_R	-	-	3	V	$I_R=20\text{mA}$
Optical output power	P_o	-	1.5	-	mW	$I_F=20\text{mA}$
Peak emission wavelength	λ_p	370	373	380	nm	$I_F=20\text{mA}$
Spectral bandwidth at 50%	$\Delta\lambda$	-	15	-	nm	$I_F=20\text{mA}$
Half angle	2θ	-	12	-	deg	$I_F=20\text{mA}$



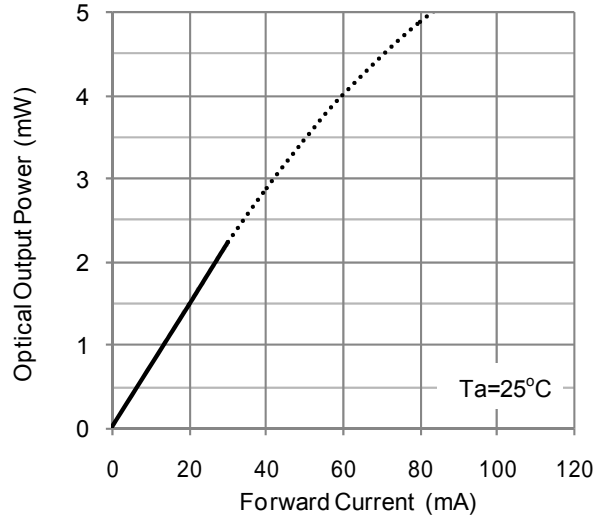
Avoid direct eye exposure to UV light.
Keep out of reach of children.

Specifications are subject to change without notice.

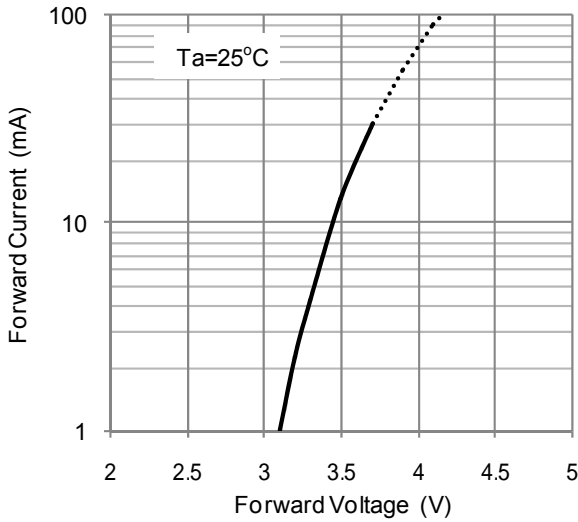
Allowable Forward Current - Ambient Temperature



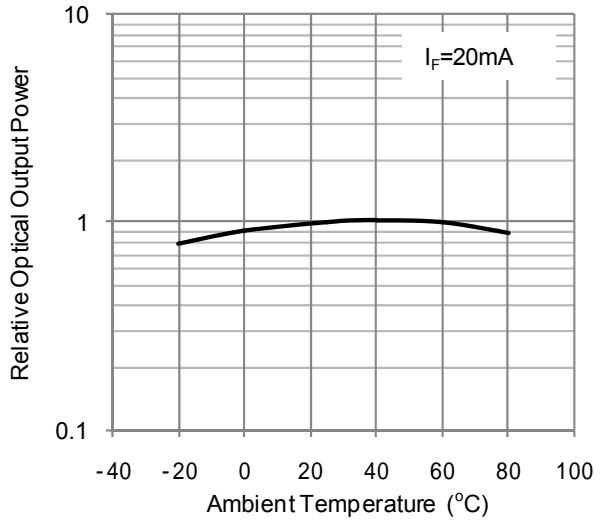
Optical Output Power - Forward Current



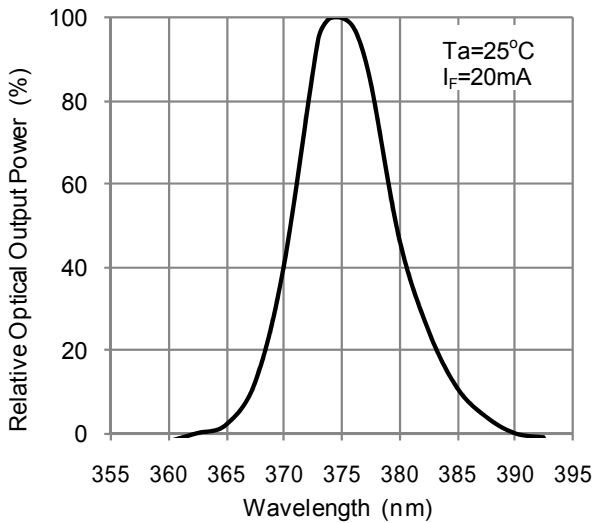
Forward Current - Forward Voltage



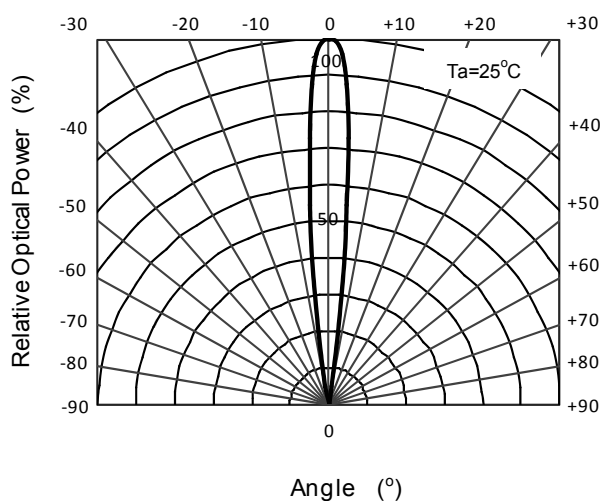
Relative Optical Output Power-Ambient Temperature



Spectral Distribution



Directivity



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