

Ultra Violet LEDs

KED372UHB

Characteristics

- Peak emission wavelength $\lambda = 378\text{nm}$
- High power
- Highly reliable hermetic seal
- Longer life
- Flat window type available

Applications

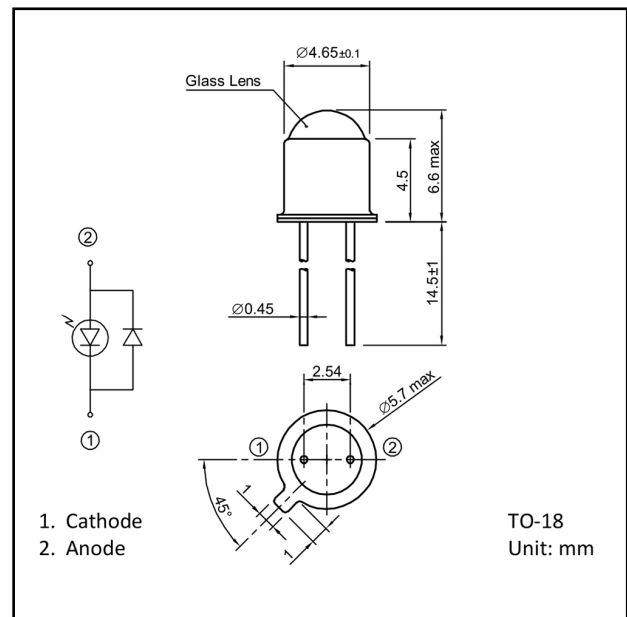
- Optical instruments
- Photocatalytic reactions
- Fluorescent substance detection
- Medical applications

Chip Material

- GaAlAs

Package

- TO-CAN



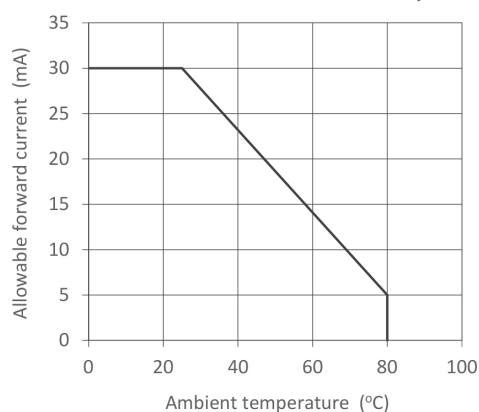
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Reverse Current	I_R	100	mA	-
Forward current	I_F	30	mA	$T_a=25$
Peak forward current	I_{FP}	0.2	A	Pulse width=100 μ s Duty ratio=0.1%
Power dissipation	P_D	120	mW	$T_a=25$
Operating temperature	T_{opr}	-20 to +80		Avoid dew condensation
Storage temperature	T_{stg}	-30 to +100		Avoid dew condensation
Soldering temperature	T_{sol}	260		Soldering time less than 5 seconds

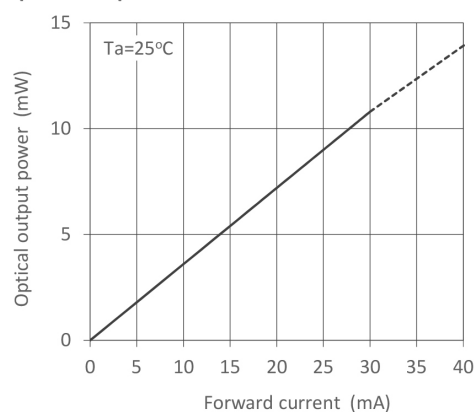
Electrical and Optical characteristics ($T_a=25$ unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse voltage	V_R	-	-	3	V	$I_R=20\text{mA}$
Forward voltage	V_F	-	3.6	4.5	V	$I_F=20\text{mA}$
Optical output power	P_O	-	7.2	-	mW	$I_F=20\text{mA}$
Peak wavelength	λ_p	370	378	380	nm	$I_F=20\text{mA}$
Spectral width		-	15	-	nm	$I_F=20\text{mA}$
Half angle	2	-	12	-	deg.	$I_F=20\text{mA}$

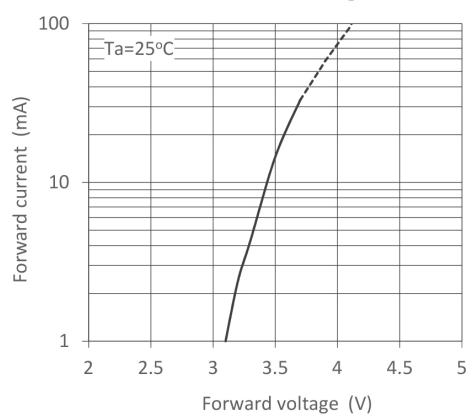
Allowable Forward Current-Ambient Temperature



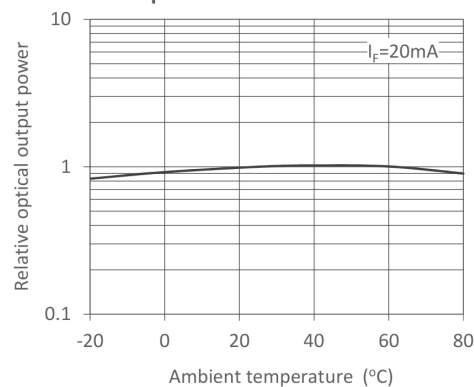
Optical Output Power - Forward Current



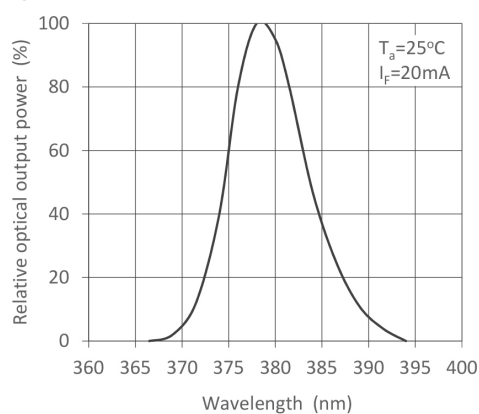
Forward Current - Forward Voltage



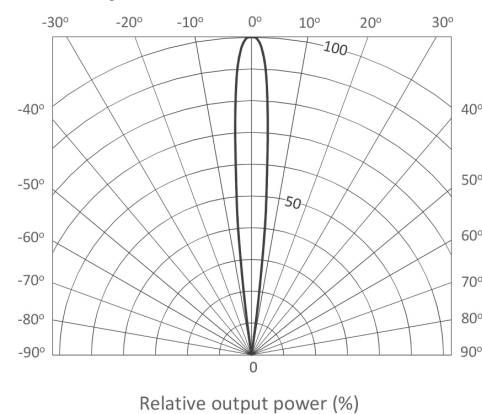
Relative Optical Output Power - Ambient Temperature



Spectral Distribution



Directivity



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