

## Ultra Violet LEDs

### KED365UH

#### Characteristics

- Peak emission wavelength,  $\lambda_p=367\text{nm}$
- Highly reliable hermetic seal
- Longer life

#### Applications

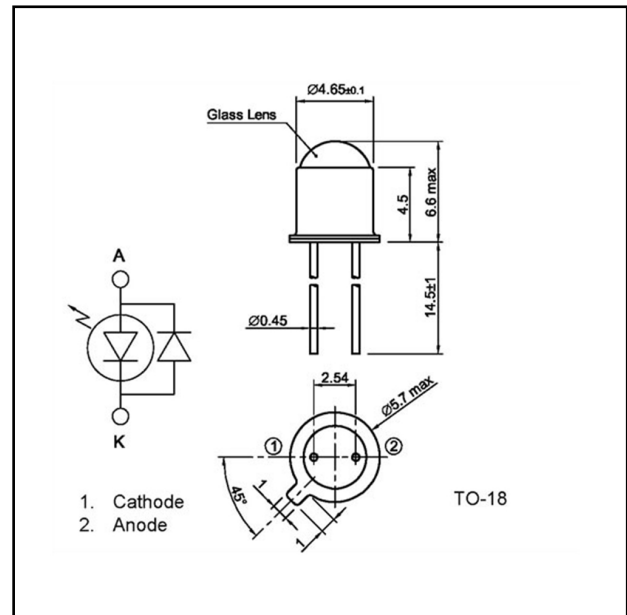
- Optical instruments
- Photocatalytic reactions
- Fluorescent substance detection
- Medical applications

#### Chip Material

- GaAlAs

#### Package

- TO-CAN



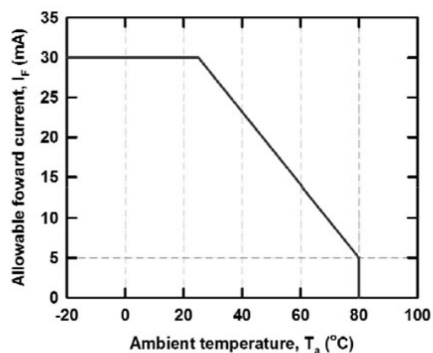
## Absolute Maximum Ratings

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 $\mu$ s Duty ratio=0.1%
Power dissipation	$P_D$	120	mW	-
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

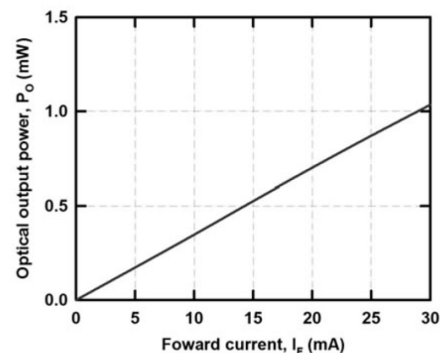
Electrical and Optical characteristics ( $T_a=25$  unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse voltage	$V_R$	-	-	3	V	$I_R=20\text{mA}$
Forward voltage	$V_F$	-	3.7	4.5	V	$I_F=20\text{mA}$
Optical output power	$P_O$	-	0.7	-	mW	$I_F=20\text{mA}$
Peak wavelength	$\lambda_p$	363	367	370	nm	$I_F=20\text{mA}$
Spectral width		-	15	-	nm	$I_F=20\text{mA}$
Half angle	2	-	16	-	deg.	$I_F=20\text{mA}$

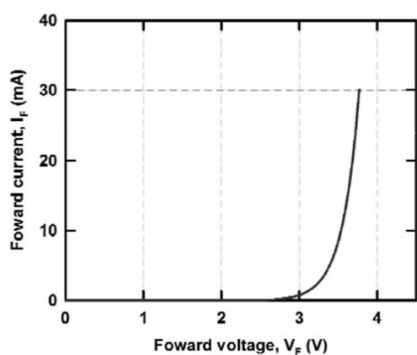
Allowable Forward Current – Ambient temperature



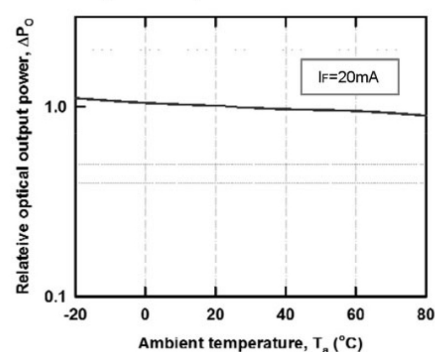
Optical Output Power – Forward Current ( $T_a=25^\circ\text{C}$ )



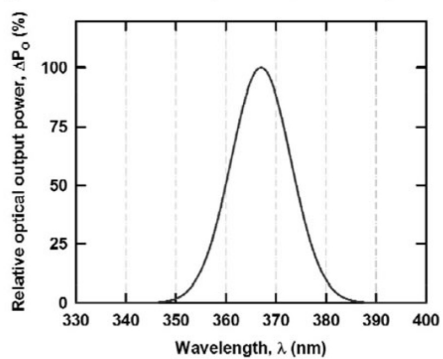
Forward Current – Forward Voltage ( $T_a=25^\circ\text{C}$ )



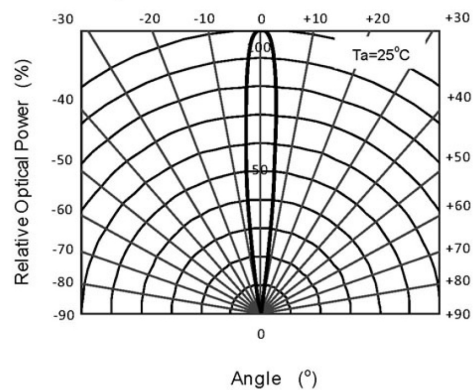
Relative Optical Output Power – Ambient Temperature



Spectral Distribution ( $T_a=25^\circ\text{C}$ ,  $I_F=20\text{mA}$ )



Directivity



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