

Ultra Violet LEDs

KED373UMS1

Characteristics

- Peak emission wavelength P=373nm
- SMD type package

Applications

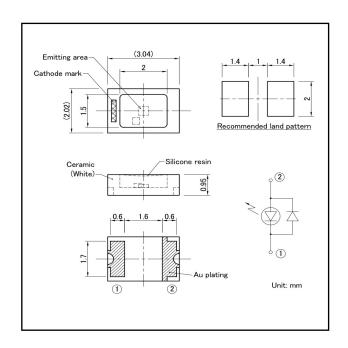
- Optical instruments
- Photocatalytic reactions
- Fluorescent substance detection
- Medical applications

Chip Material

• InGaN

Package

• SMD





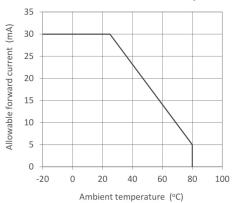
Absolute Maximum Ratings

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	А	Pulse width=100µs 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 +85		Avoid dew condensation
Soldering temperature	T _{sol}	260		Soldering time less than 5 seconds

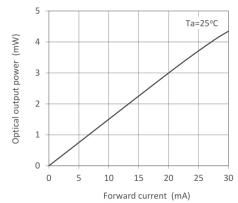
Electrical and Optical characteristics (T_a=25 unless otherwise noted)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Reverse voltage	V_R	-	-	3	V	I _R =20mA
Forward voltage	V _F	-	3.6	4.5	V	I _F =20mA
Optical output power	Po	-	3	-	mW	I _F =20mA
Peak wavelength	р	370	373	380	nm	I _F =20mA
Spectral width		-	12	-	nm	I _F =20mA
Half angle	2	-	130	-	deg.	I _F =20mA

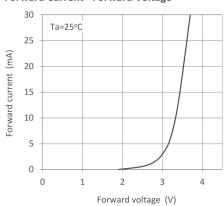
Allowable Forward Current-Ambient Temperature



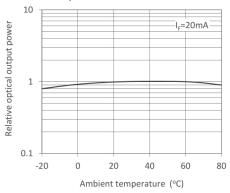
Optical Output Power - Forward Current



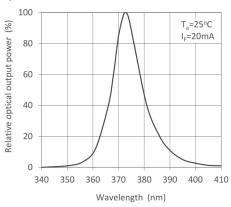
Forward Current - Forward Voltage



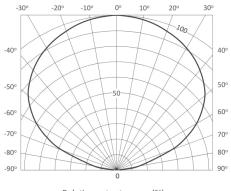
Relative Optical Output Power -Ambient Temperature



Spectral Distribution



Directivity



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