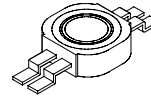


shadow

Ultra Violet Power LED

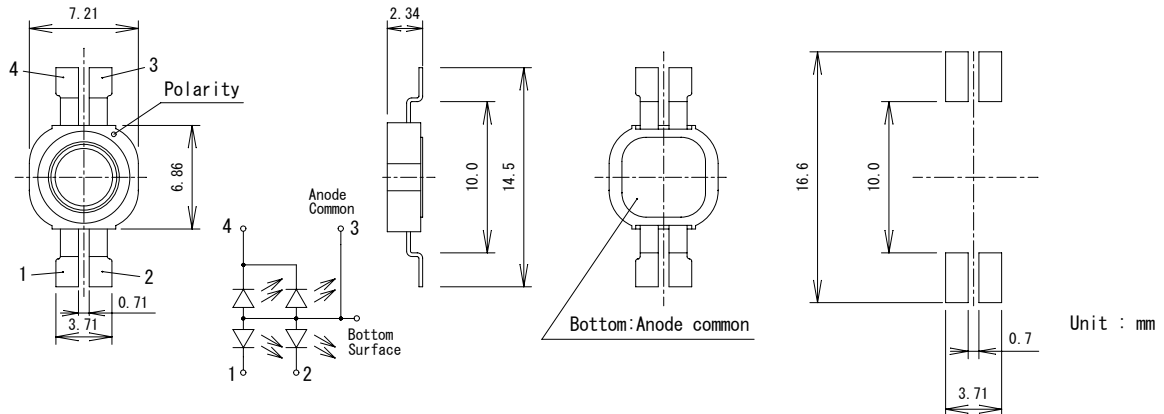


RoHS Compliant

1. Part Number: YBBC44nUV-420

Wavelength: 415-420nm

2. Outer Dimensions / LED wiring diagram / Recommended pattern for SMD



3. Absolute Maximum Rating

(Ta=25°C)

Items	Symbol	Rating	Unit
Substrate	—	Metal PCB + Heat sink	—
Power Dissipation	P _D	5.0	W
Forward Current	I _F	350	mA/Chip

Items	Symbol	Rating	Unit
Reverse Voltage	V _R	5	V
Operating Temperature Range (*1)	T _{opr}	-30 - +90	°C
Storage Temperature Range (*1)	T _{stg}	-40 - +100	°C
Soldering Temperature (*2)	T _{sol}	280	°C

(*1) Non-condensing humidity. Absolute die junction temperature: 120°C

(*2) Solder within 3 seconds and do not exceed maximum allowable soldering temperature.

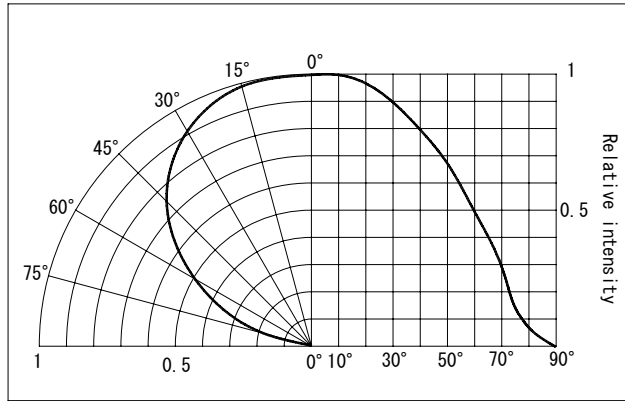
4. Electrical and Optical Characteristics

(Ta=25°C)

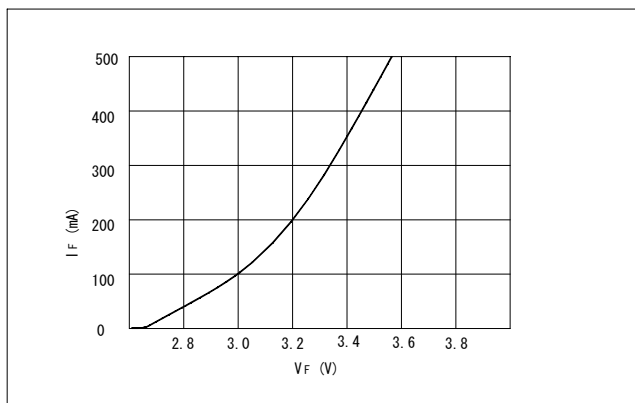
Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F = 350mA/Chip (Metal PCB)	3.2	3.4	3.6	V
Optical Power Output (*3)	P _o		1,320	1,420	1,520	mW
Peak Wavelength	λ _p		432	435	437	nm
Dominant wavelength	λ _d		418	421	423	nm
Viewing Angle	2θ 1/2		120			deg
Reverse Current	I _R	V _R = 5V	—	—	2	μA

(*3) Measurement tolerance: ± 15 %

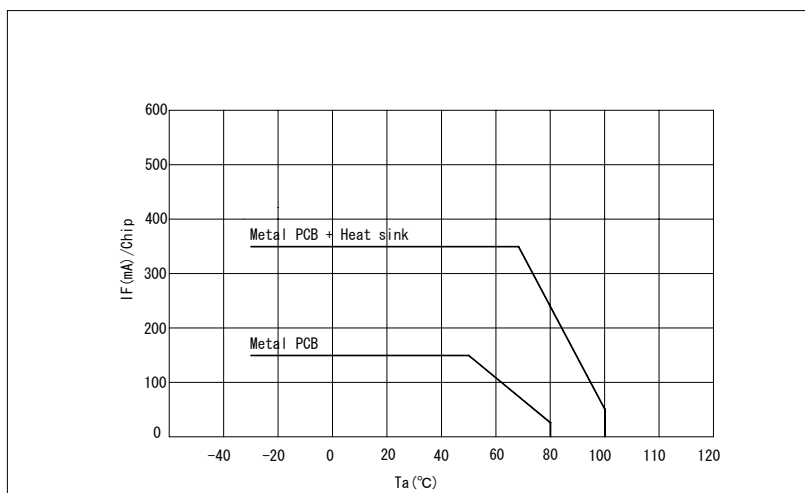
5. Viewing angle



6. Voltage & Current characteristics



7. Ambient temperature & Forward current reduction rate characteristics



Measured values are for reference only.

Mimaki reserves the right to change specifications at anytime without notice.