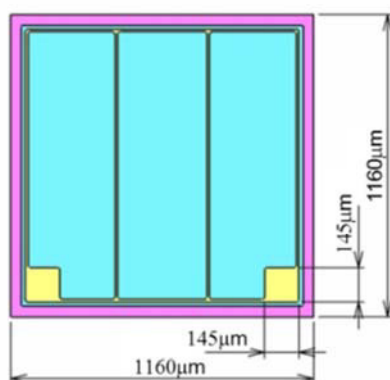


## C420V-100

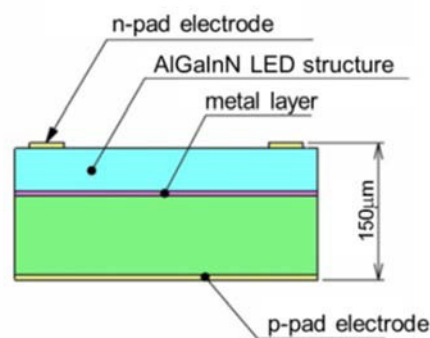
### High Performance UV LED CHIP

#### <Specifications>

- Material: AlGaInN on Si Substrate
- Electrode: N(Cathode)/Au Alloy Pad  
P(Anode)/Au Alloy Pad
- Chip Size: 1160 $\mu$ m x 1160 $\mu$ m typ.
- Chip Thickness: 150 $\mu$ m typ.
- Pad Width: 145 $\mu$ m typ.
- Peak Wavelength: 420nm typ.



Chip pattern



Chip side View

Absolute Maximum Ratings [Tc=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Forward Current	IF	700	mA
Pulse Forward Current*	IFP	1000	mA
Reverse Voltage	VR	5	V
Operating Temperature	TOPR	-40 ~ +85	°C
Storage Temperature**	TSTG	+5 ~ +30	°C

\* Duty=1% x Pulse Width=10us

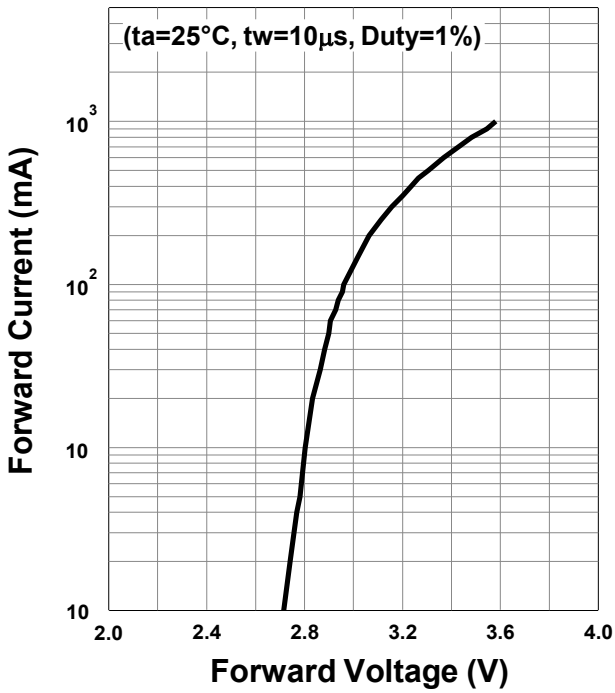
\*\* Relative Humidity is less than 70%

Electro-Optical Characteristics [Tc=25°C]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=350mA		3.2	3.8	V
	VFP	IFP=1000mA		3.6		
Total Radiated Power*	PO	IF=350mA	500	640		mW
		IFP=1000mA		1500		
Peak Wavelength	$\lambda$ P	IF=350mA	410		430	nm
Half Width	$\Delta\lambda$	IF=350mA		13		nm
Rise Time	tr	IF=350mA		45		ns
Fall Time	tf	IF=350mA		50		ns

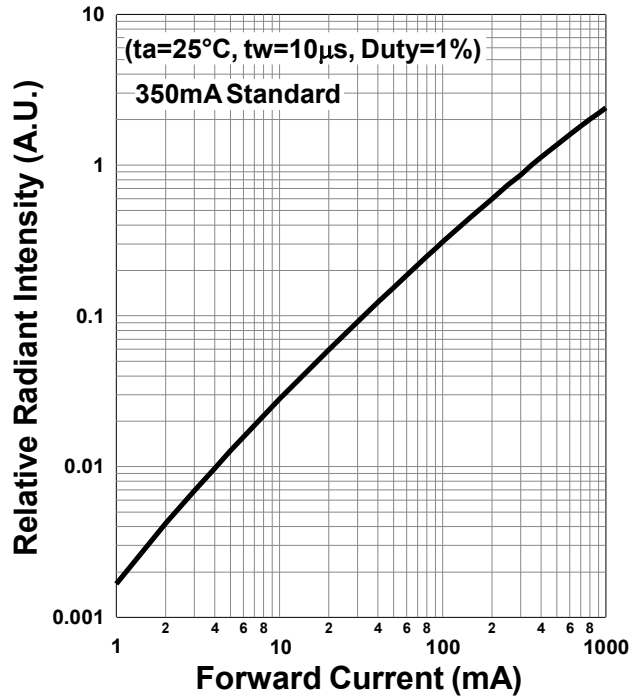
- Die shall be mounted on TO-18 gold header without resin coated. (Ta=25°C)

Typical Characteristic Curves

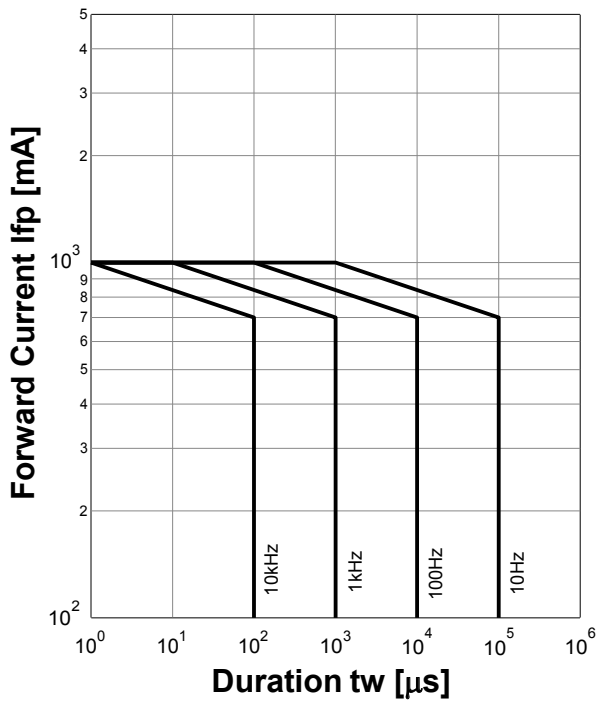
Forward Current - Forward Voltage



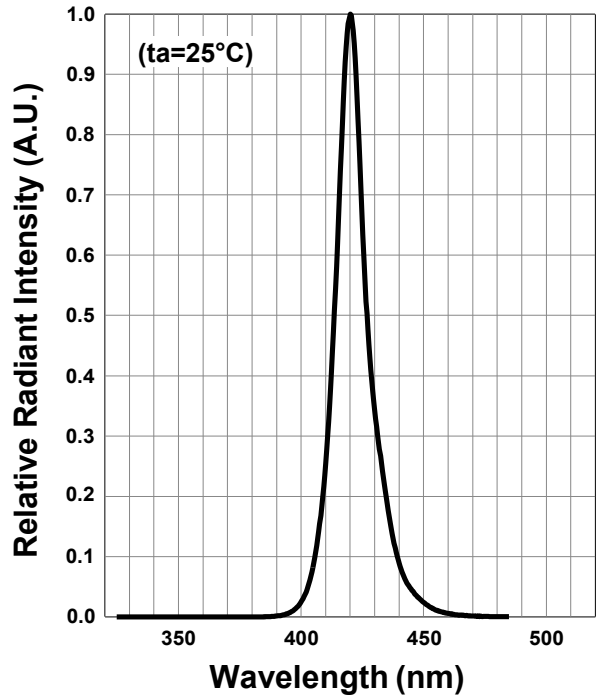
Relative Radiant Intensity - Forward Current

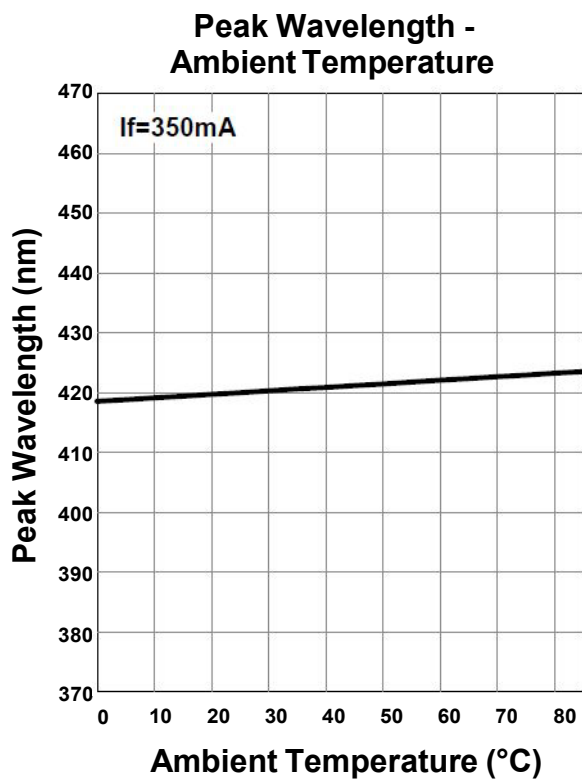
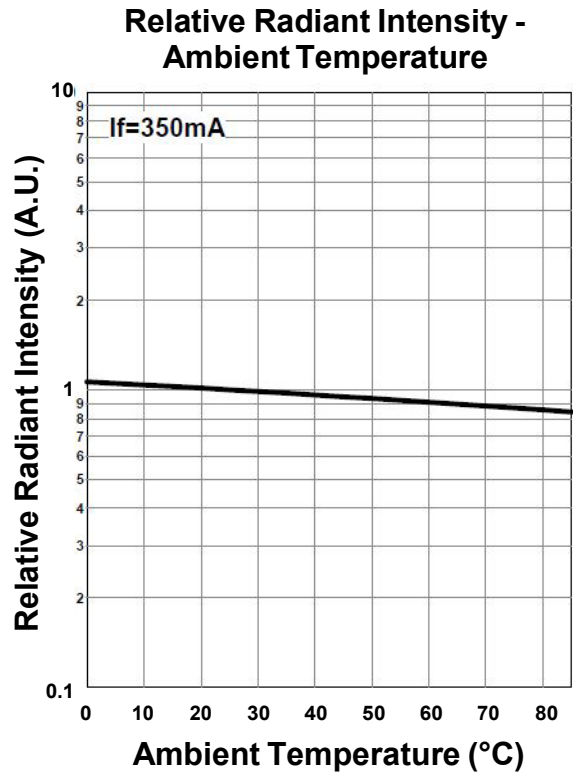
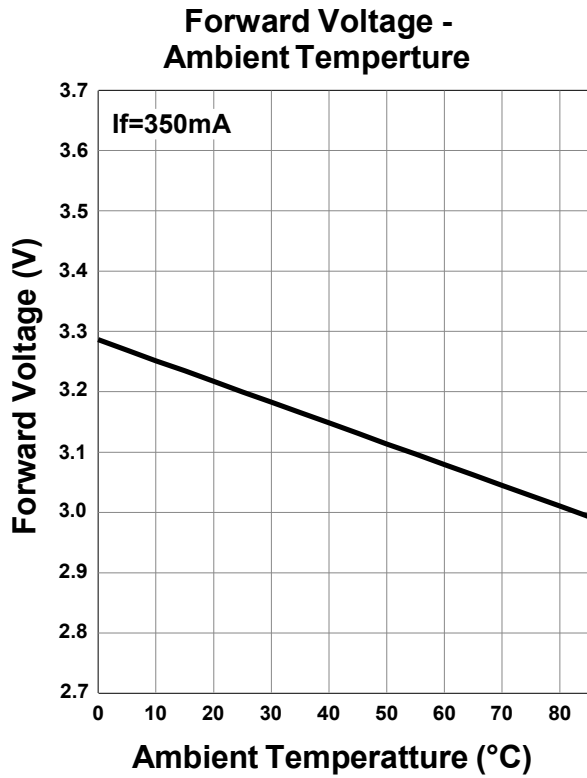


Forward Current - Pulse Duration



Relative Spectral Emission





**Disclaimer**

Product specifications and data shown in this product catalog are subject to change without notice for the purposes of improving product performance, reliability, design, or otherwise.

Product data and parameters in this catalog are typical values based on reasonably up-to-date measurements.

Product data and parameters may vary by user application and over time.

Products shown in this catalog are intended to be used for general electronic equipment. Products are not guaranteed for applications where product malfunction or failure may cause personal injury or death, including but not limited to life-supporting / saving devices, medical devices, safety devices, airplanes, aerospace equipment, automobiles, traffic control systems, and nuclear reactor control systems.