

HU01C395V-175R-CA
Ultra High Power UV Array

HU01C395V-175R-CA is InGaN LED mounted on copper PCB with copper heat sink and an air cooling unit.
These devices are available to be operated and 4.4W/cm² at 12.5A.



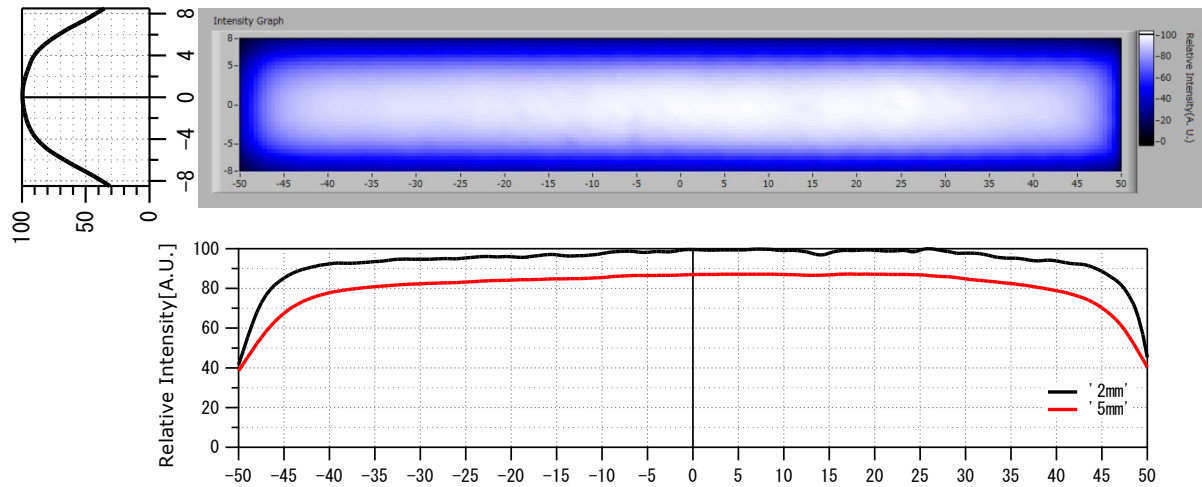
Specifications	
Product Name	Ultra High Power UV Array
Type No.	HU01C395V-175R-CA
Radiation Area	13mm(W)x100mm(L)
Cover Plate	Quartz Glass
Peak Wavelength	395nm typ.
Radiated Intensity*	4.4W/cm ² **
Input Current	12.5A(0.5Ax25ch)
Input Voltage	26V typ.
Power Dissipation	350W max.
Cooling Method	Forced Air Cooling by Fan Motor
Input Voltage(Fan Motor)	12 V
Heat Sink Material	Copper
Operating Temperature	-40 °C ~ +80 °C
Storage Temperature	-40 °C ~ + 100 °C
Gross Weight	2.3kg

* 5 minutes after lamp ON at distance of 2mm within irradiation area.

** Radiated Intensity is measured by USHIO UTI-150-A.



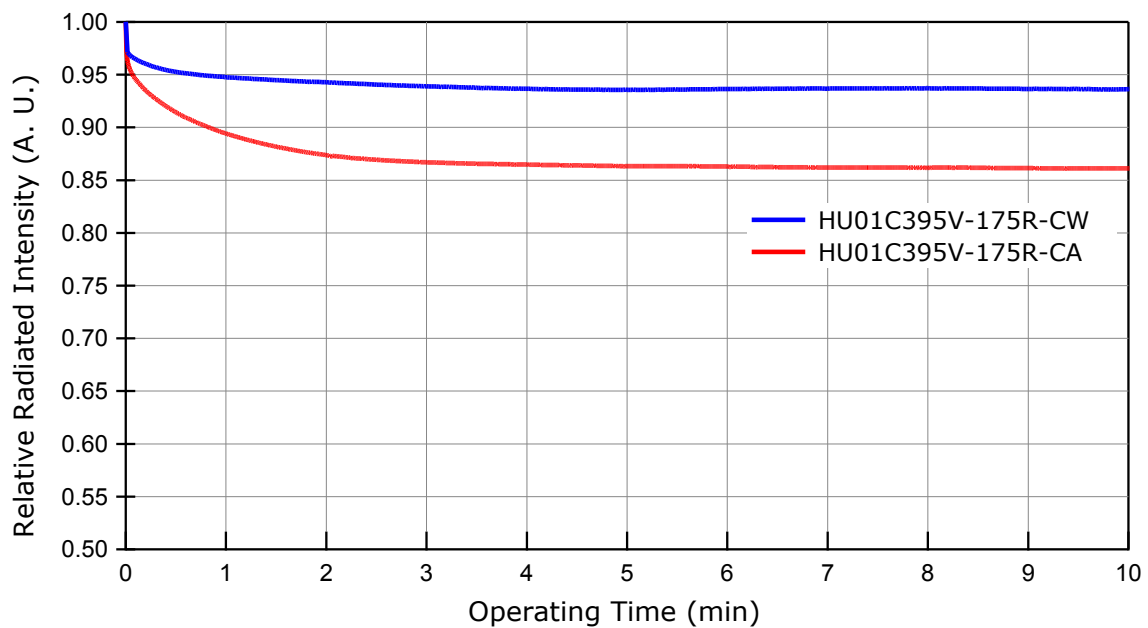
Distribution of Radiated Intensity (example)



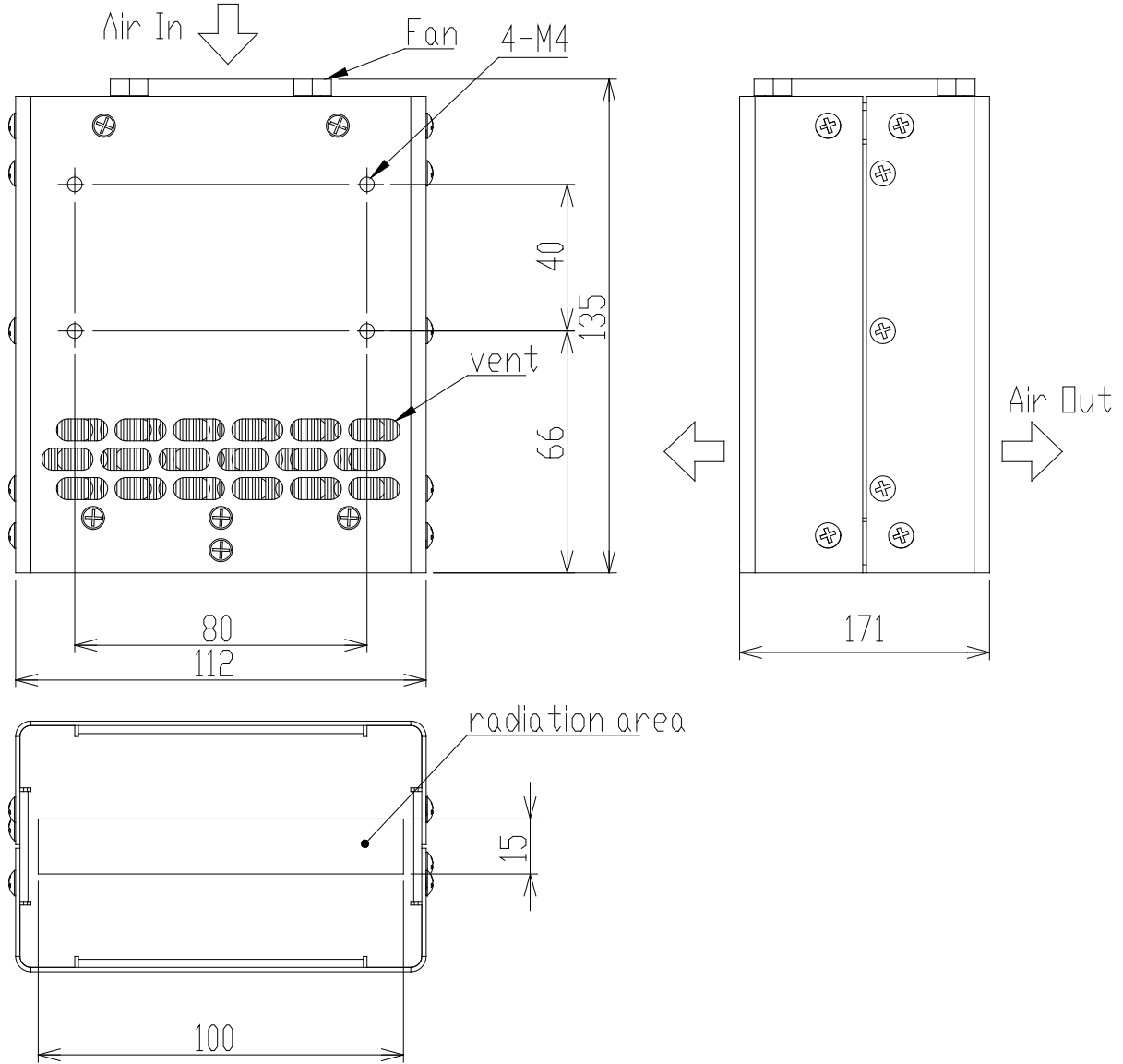
Radiated Intensity at Distance of D mm from the surface

Distance from the surface	Radiated Intensity	Unit
2mm	4.4	W/cm ²
5mm	3.5	
10mm	2.6	

Comparison of the drift characteristics of HU01C395V-175R-CA and HU01C395V-175R-CW



Outer Dimension (Unit:mm)



CHIP: C395V-110

Specifications of LED Chip	
Product Name	UV Chip
Type No.	C395V -110
Material	InGaN on Si Substrate
p-pad Electrode	AuSn Alloy
n-pad Electrode	Au Alloy
Chip Size	1140umx1140um typical
Chip Thickness	150µm typical
Pad Diameter	130µm typical

Absolute Maximum Rating of LED Chip [Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Forward Current	IF	750	mA
Reverse Voltage	Vr	5	V
Operating Temperature	TOPR	-40 ~ +85	°C
Storage Temperature	TSTG	-40 ~ +60	°C

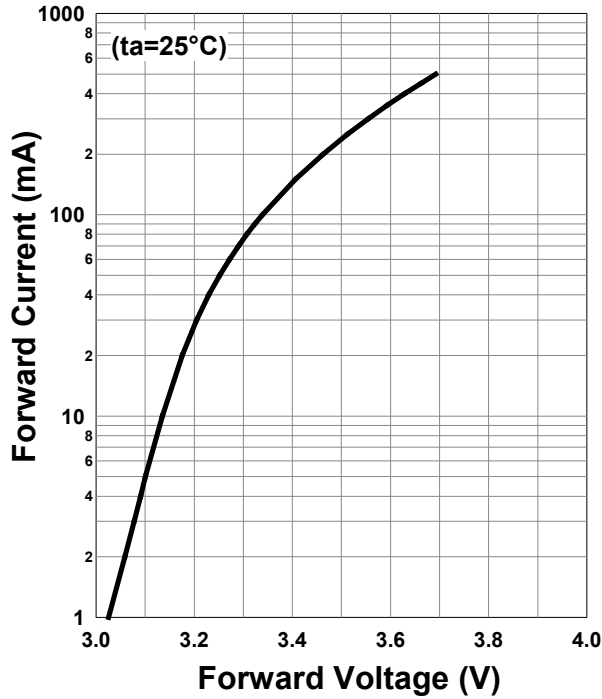
Electro-Optical Characteristics of LED Chip [Ta=25°C typ.]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=500mA		3.7	4.5	V
Radiant Power*	λP=390~395nm	PO	IF=500mA	350	500	mW
	λP=395~400nm			450	700	
Peak Wavelength	λP	IF=500mA		395		nm
FWHM	Δλ	IF=500mA		13		nm

* PO Minimum depends on wavelength.

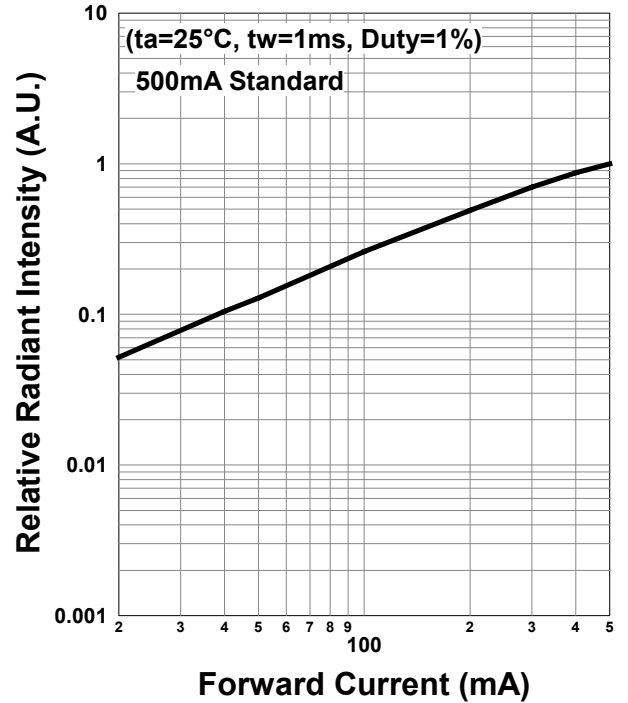
- Die shall be mounted on TO-18 gold header or SMZ package without resin coated.(Ta=25°C)

The data below shows the characteristics of one representative HU01C395V-175R-CA chip.

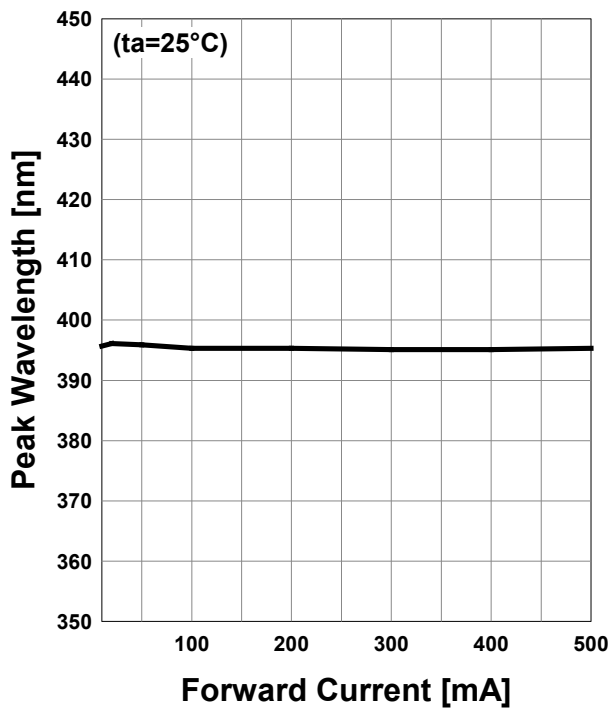
Forward Current - Forward Voltage



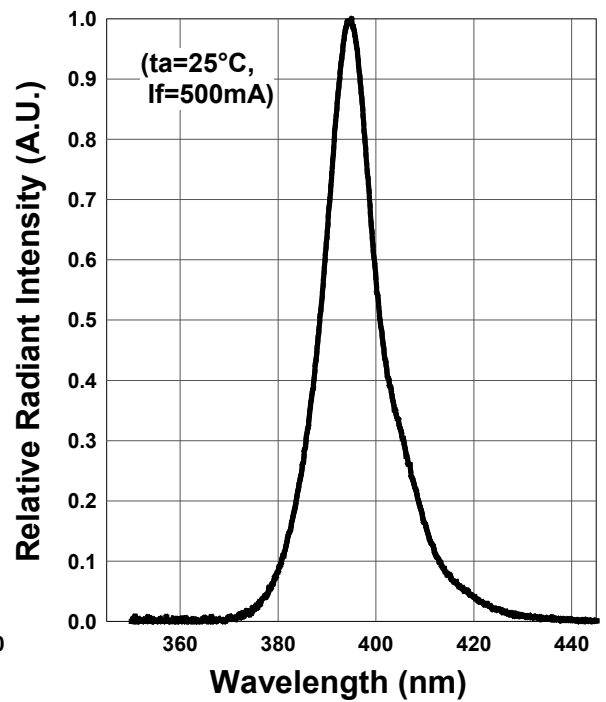
Relative Radiant Intensity - Forward Current

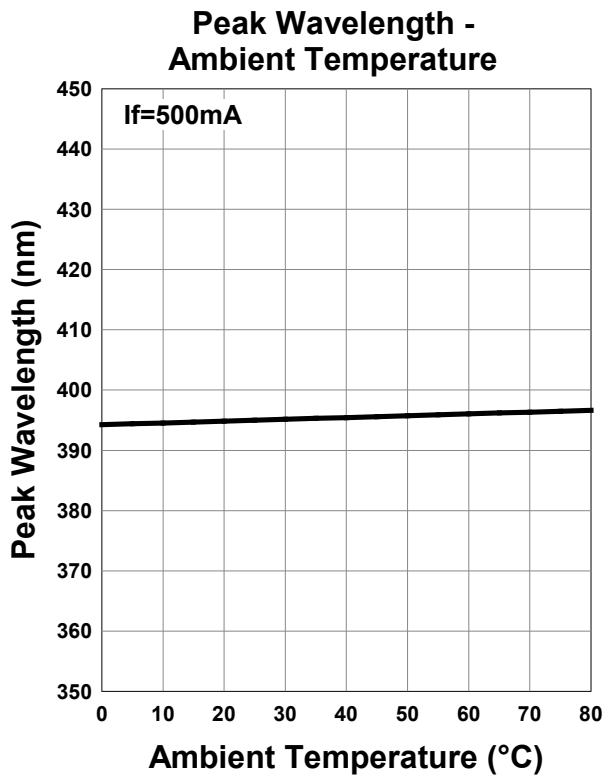
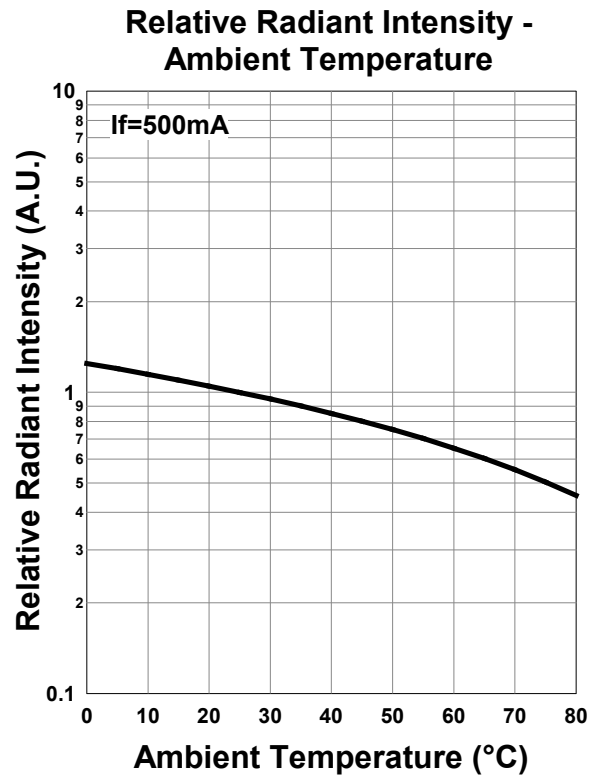
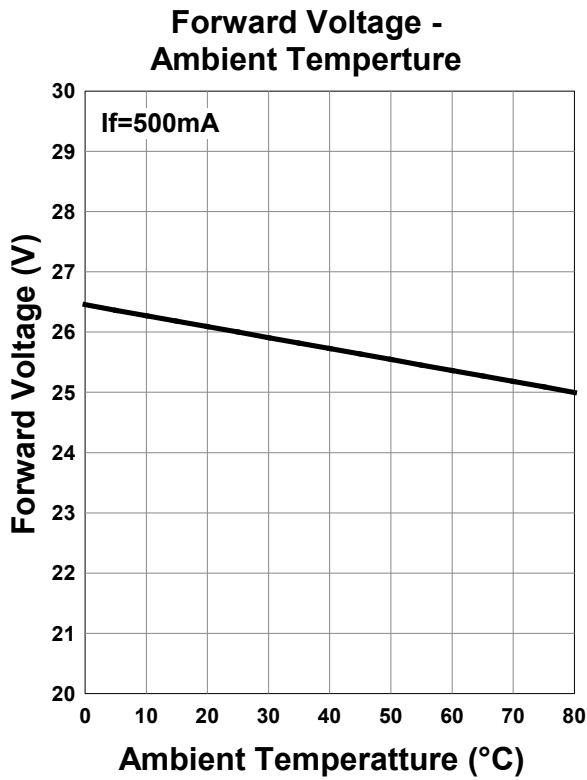


Peak Wavelength - Forward Current



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.

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