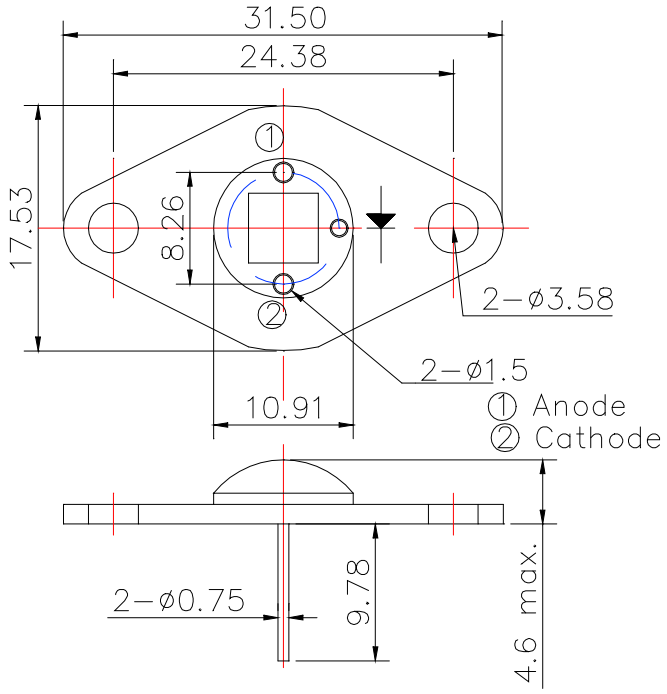
L435V-66-16100

Blue illuminator

Outline and Internal Circuit



(Unit : mm)

Features

- Chip Material : InGaN
- Chip Dimension : 1000um * 1000um
- Number of Chips : 16pcs
- Peak Wavelength : 435nm typ.
- Stem : TO-66 stem
- Lens : Silicone and/or Epoxy resin

Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Power Dissipation	PD	38	W
Forward Current	IF	2	A
Reverse Voltage	VR	20	V
Thermal Resistance	Rthja	2	K/W
Junction Temperature	Tj	120	°C
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +100	°C
Soldering Temperature	TSOL	265	°C

‡Soldering condition: Soldering condition must be completed with 3 seconds at 265°C.

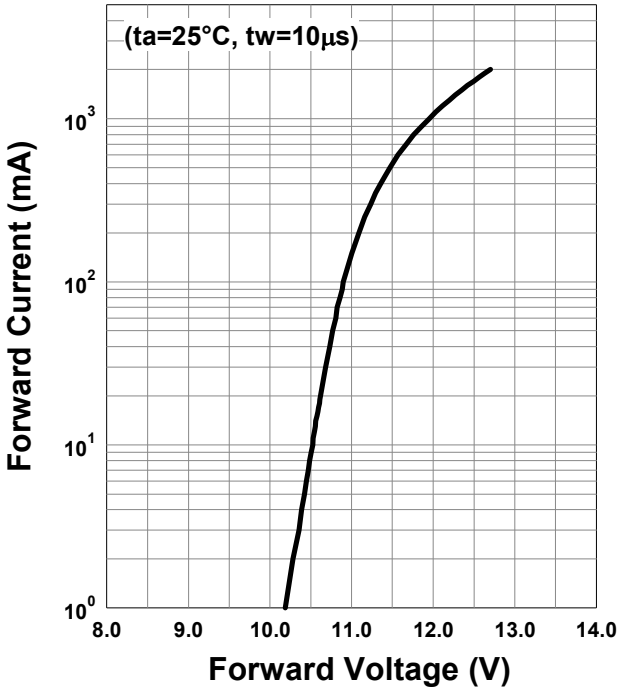
Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	VF		12.7	18	V	IF=2A
Total Radiated Power	PO		7500		mW	IF=2A
Luminous Flux	ΦV		170		lm	IF=2A
Peak Wavelength	λp	425		445	nm	IF=2A
Half Width	Δλ		17		nm	IF=2A
Viewing Half Angle	θ1/2		±65		deg.	IF=100mA
Rise Time	tr		25		ns	IF=2A
Fall Time	tf		60		ns	IF=2A

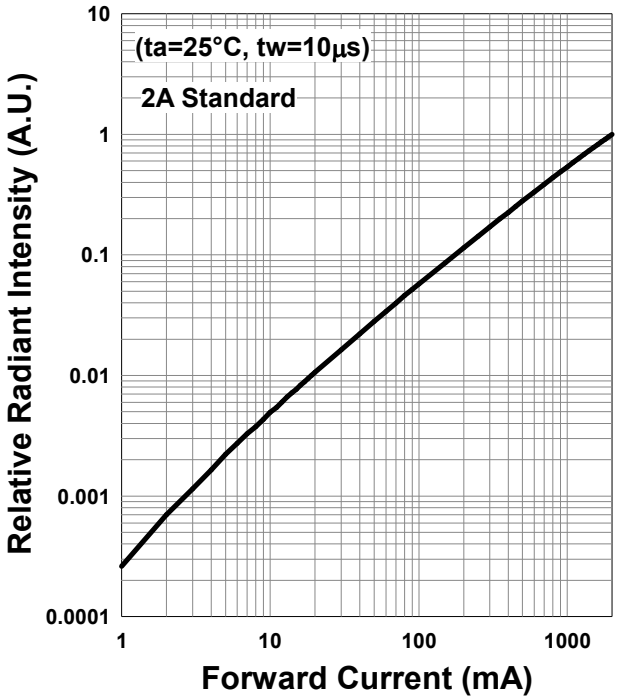
‡ Radiated Power is measured by S3584-08.

Typical Characteristic Curves

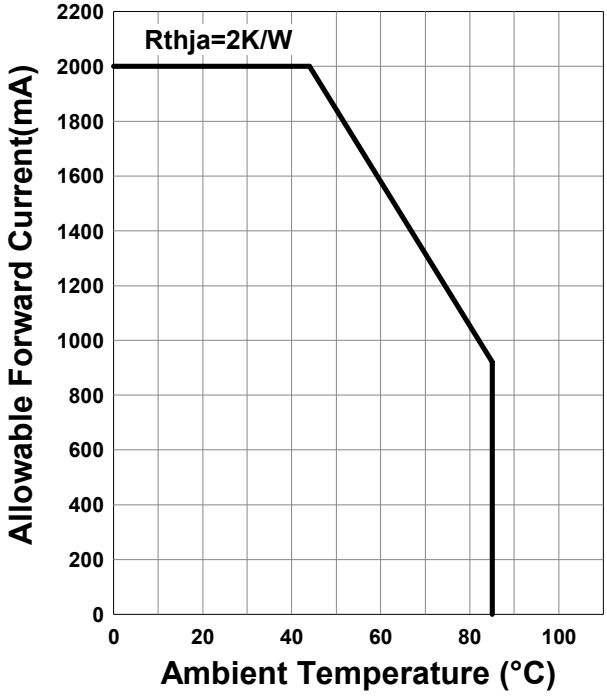
Forward Current - Forward Voltage

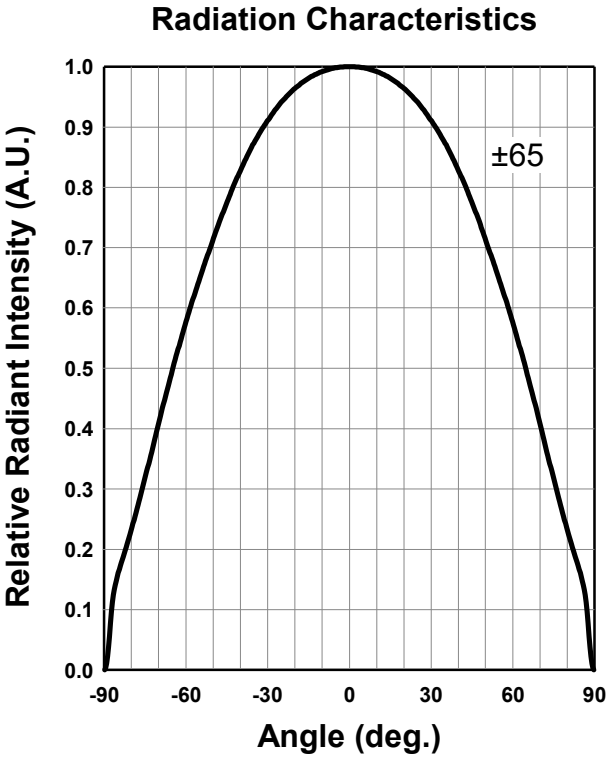


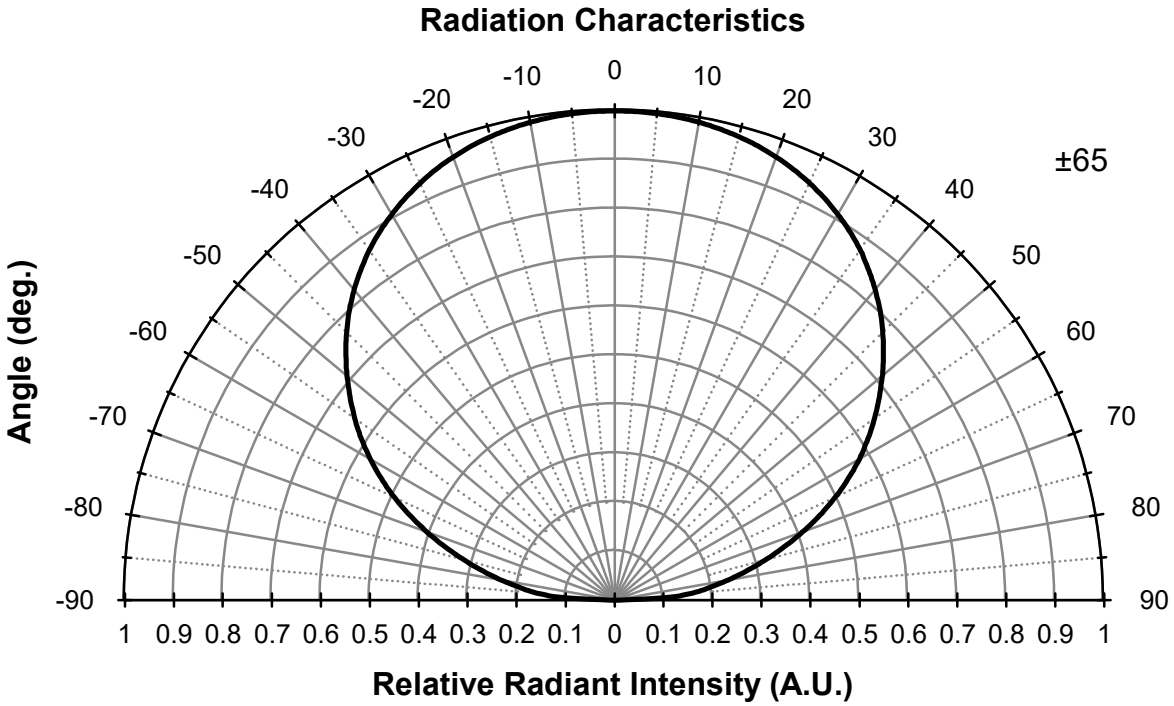
Relative Radiant Intensity - Forward Current



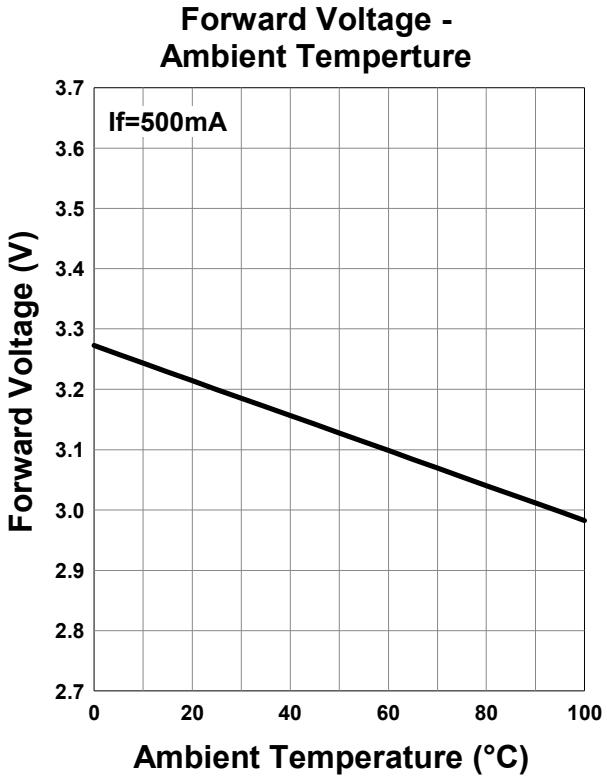
Allowable Forward Current - Ambient Temperature

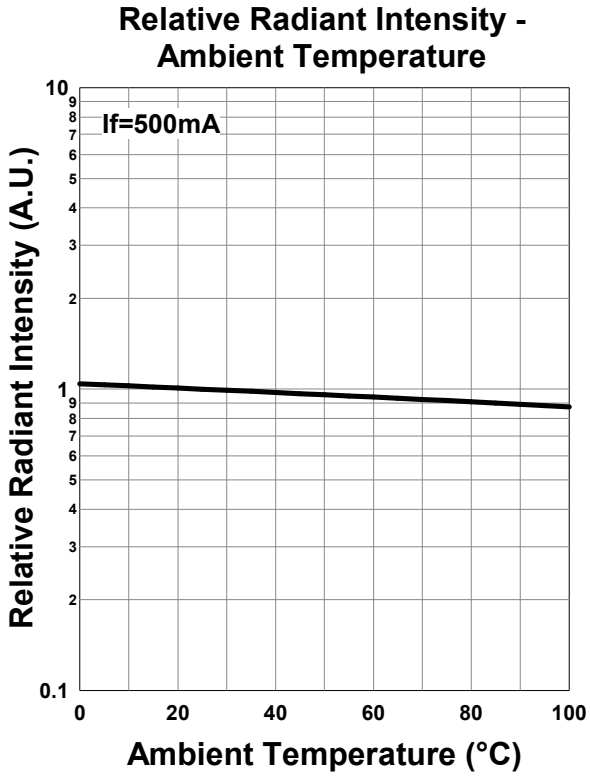


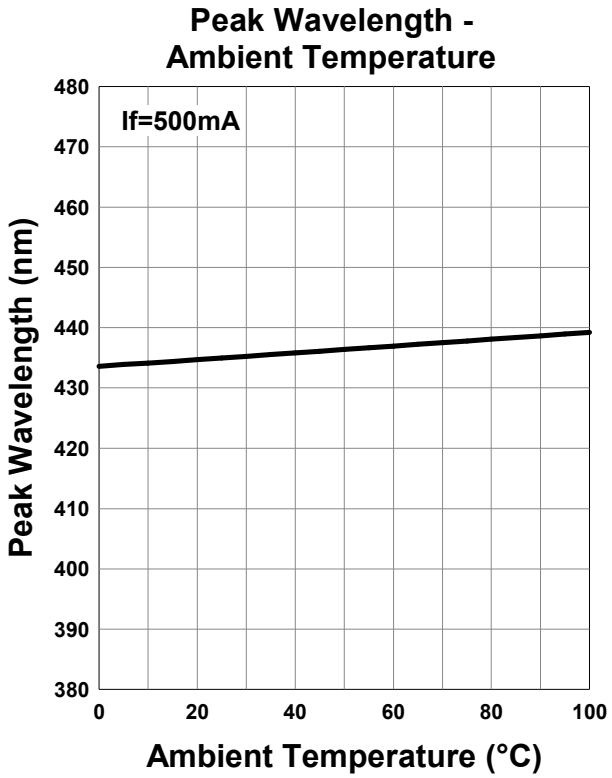

Radiation Characteristics
Relative Radiant Intensity (A.U.)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
±65
-90
-60
-30
0
30
60
90
Angle (deg.)

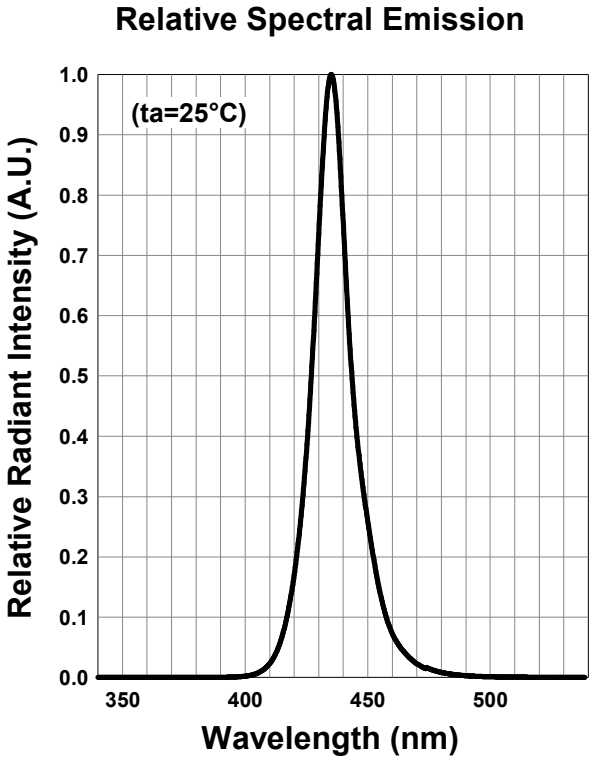

Radiation Characteristics
Angle (deg.)
0
-10
10
-20
20
-30
30
-40
40
-50
50
-60
60
-70
70
-80
80
-90
90
±65
1 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Relative Radiant Intensity (A.U.)

*The data below shows the characteristics of one representativeTO-66 chip.









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.

2018.12

Marubeni America Corporation | 3945 Freedom Circle, Suite 1000, Santa Clara, CA95054
Email: sales@tech-led.com | URL: www.tech-led.com