

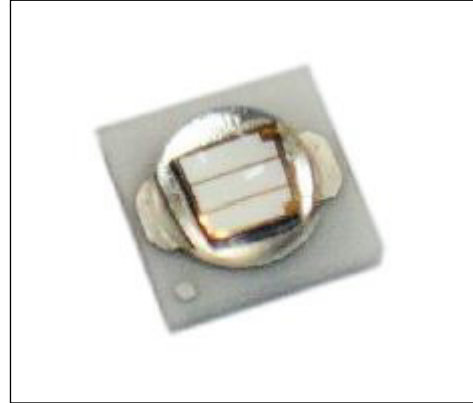
EDC405-1100

High Power Top LED

EDC405-1100 is an InGaN LED mounted on the 3.5x3.5mm ceramics package. These devices are available to be operated and 1200mW at IFP=700A.

<Specifications>

1. Product Name: High Power Top LED
2. Type Number: EDC405-1100
3. Chip:
 - Chip material: InGaN
 - Chip Dimension: 1000umx1000um
 - Chip Number: 1pc
 - Peak Wavelength: 405nm type
4. Package
 - Lead Frame Die: Ceramics
 - Lens: Silicone Resin



Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	2100	mW
Forward Current	IF	500	mA
Pulse Forward Current*	IFP	700	mA
Reverse Voltage	VR	5	V
Thermal Resistance	Rthja	10	K/W
Junction Temperature	Tj	120	°C
Operating Temperature	TOPR	-40 ~ +100	°C
Storage Temperature	TSTG	-40 ~+100	°C
Soldering Temperature**	TSOL	250	°C

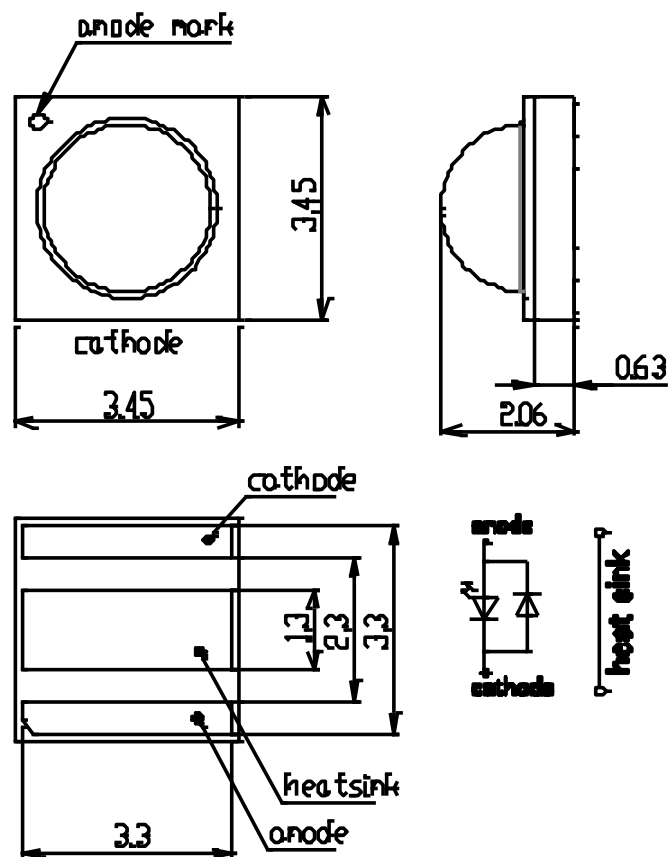
* Duty=1% and Pulse Width=10μs

** Soldering condition must be completed within 3 seconds at 250°C

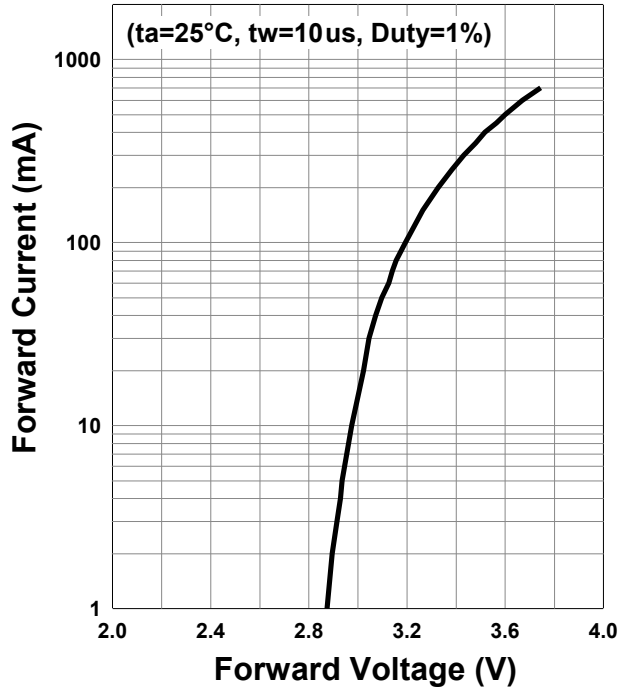
Electro-Optical Characteristics [Ta=25°C typ.]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=500mA		3.6	4.2	V
	VFP	IFP=700mA		3.8		
Radiated Power*	PO	IF=500mA		900		mW
		IFP=700mA		1200		
Peak Wavelength	λP	IF=500mA	400	405	410	nm
Half Width	Δλ	IF=500mA		12		nm
Viewing Half Angle	θ1/2	IF=100mA		± 68		deg
Rise Time	tr	IF=500mA		55		ns
Fall Time	tr	IF=500mA		75		ns

* Measured by S3584-08

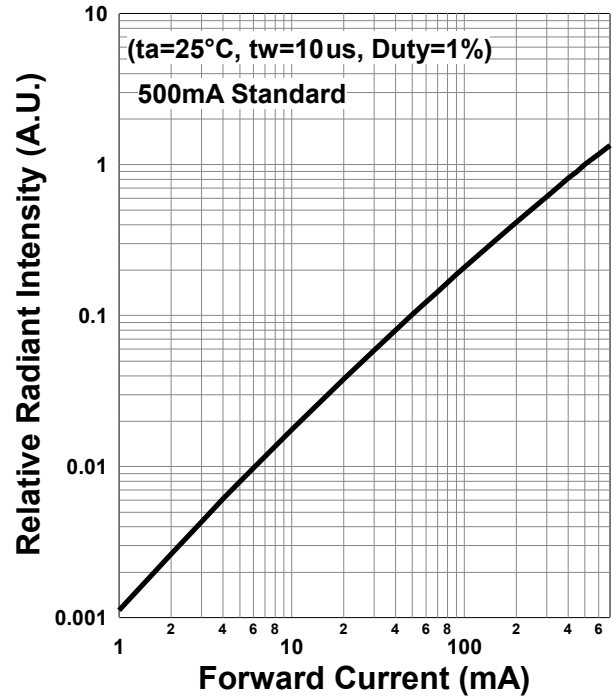




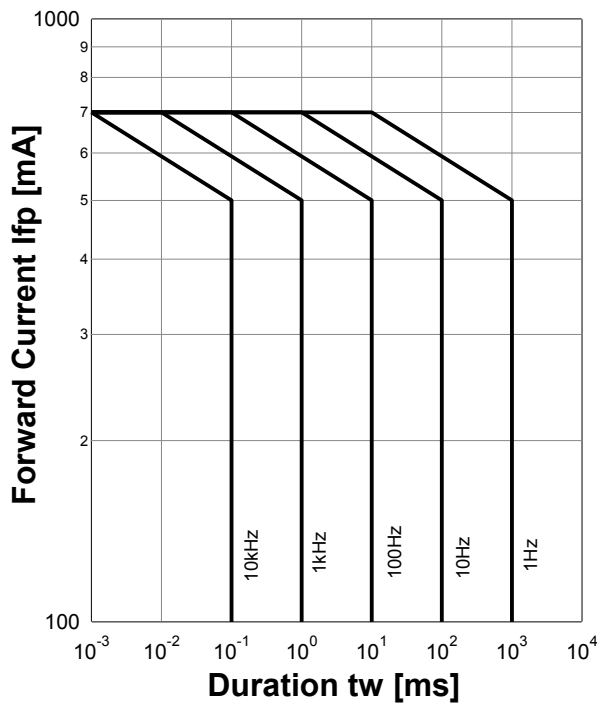
Forward Current - Forward Voltage



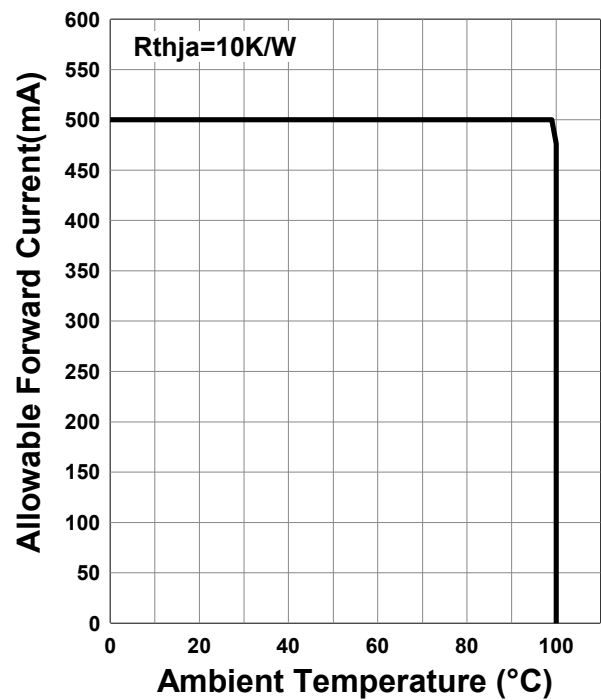
Relative Radiant Intensity - Forward Current

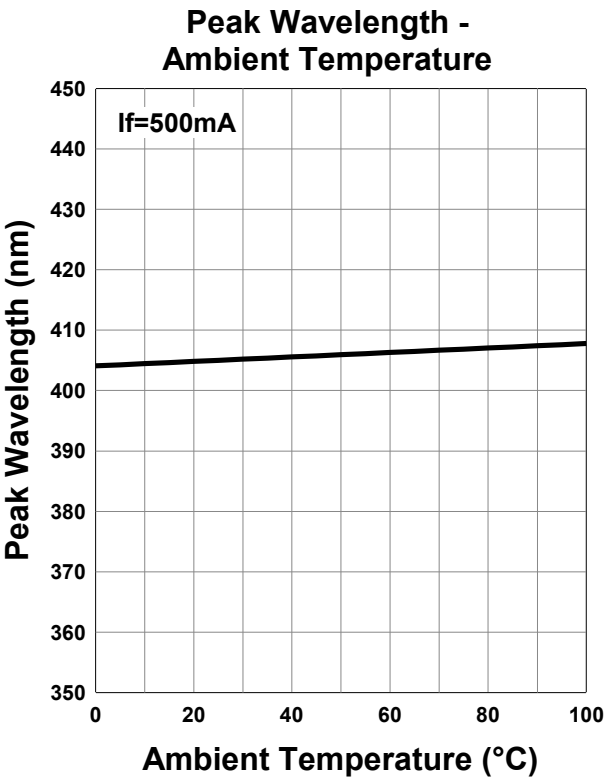
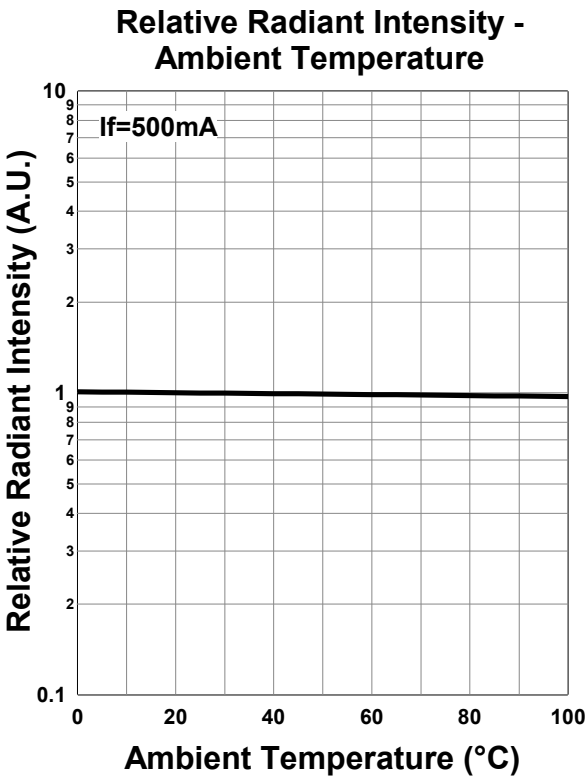
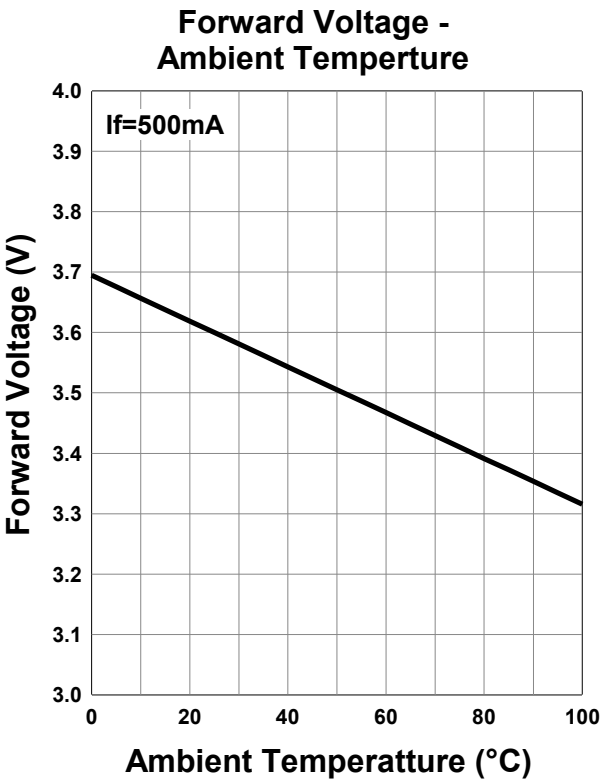


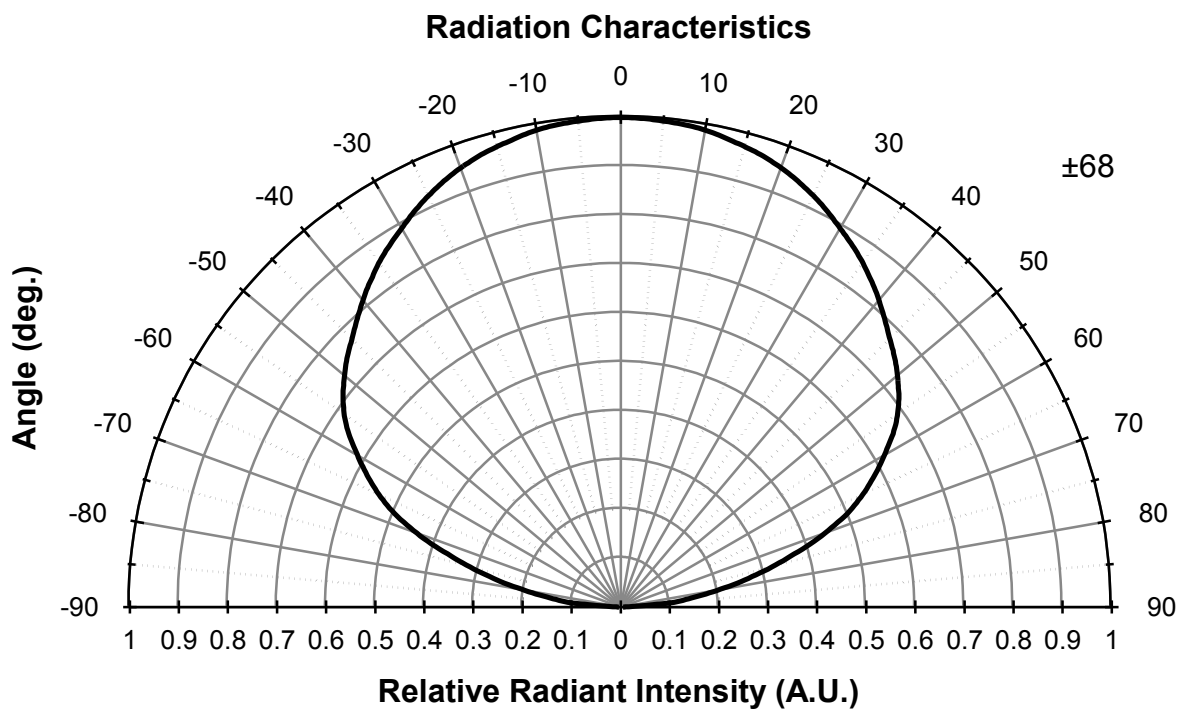
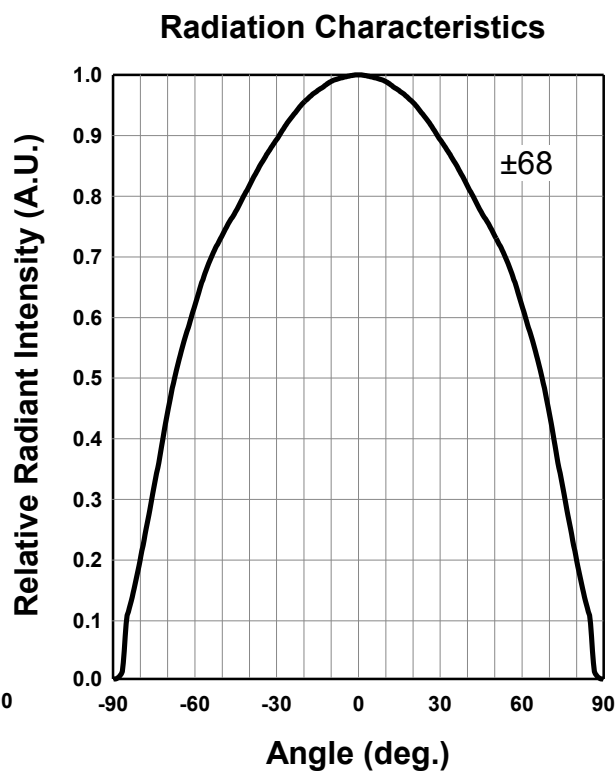
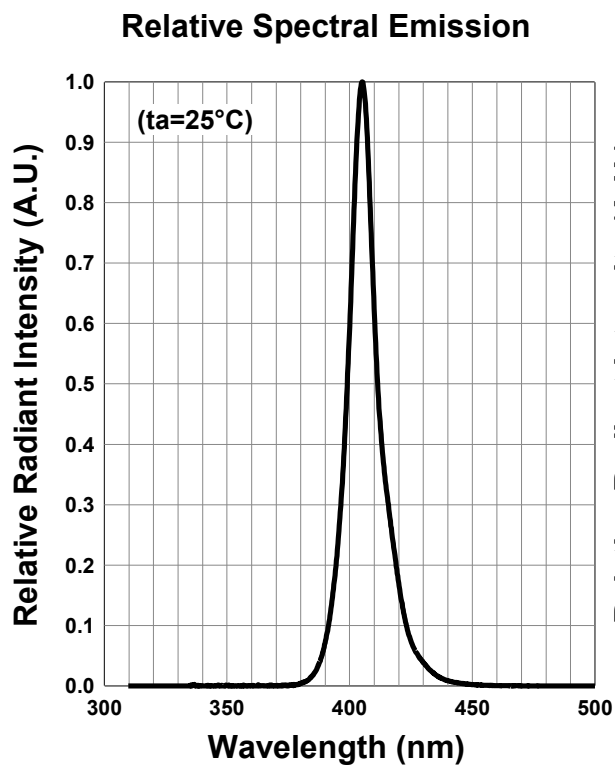
Forward Current - Pulse Duration



Allowable Forward Current - Ambient Temperature







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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