Lead (Pb) Free Product – RoHS Compli

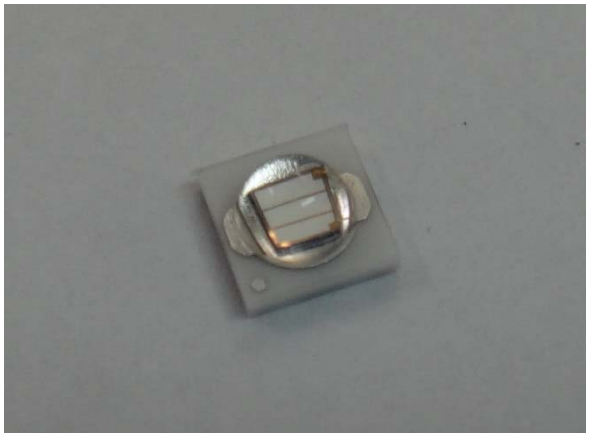
PRELIMINARY

EDC405V-1100 High Power Top LED

EDC405V-1100 is an InGaN LED mounted on the 3.5*3.5 mm ceramics package.
These devices are available to be operated and 1200mW at IFP=700mA.

♦Specifications

1) Product Name	High Power Top LED
2) Type No.	EDC405V-1100
3) Chip	
(1) Chip Material	InGaN
(2) Chip Dimension	1000um*1000um
(3) Chip Number	1pce
(4) Peak Wavelength	405nm typ.
4) Package	
(1) Lead Frame Die	Ceramics
(2) 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

‡Pulse Forward Current condition: Duty=1% and Pulse Width=10us.
‡Soldering condition: Soldering condition must be completed within 5 seconds at 250°C

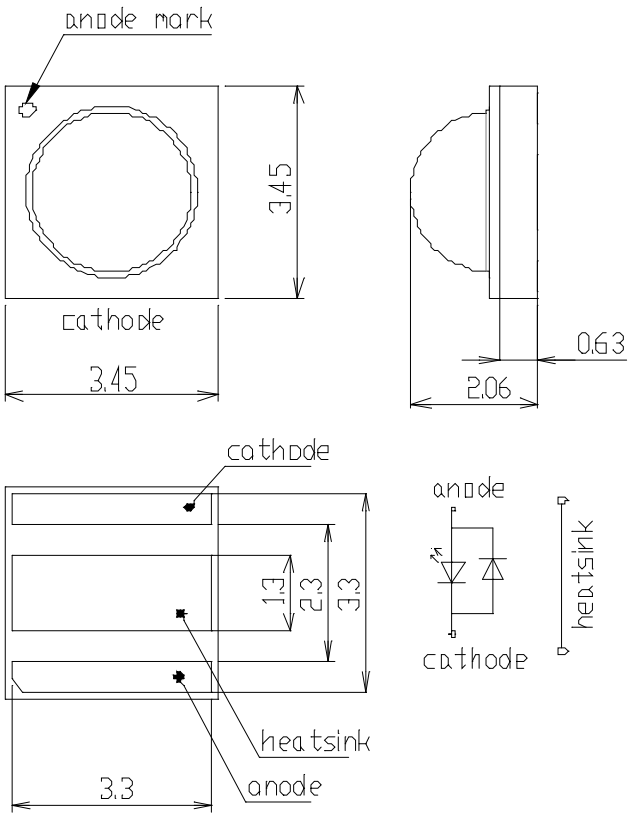
EPITEX INC.: 66-3 Minami-Kawabe Cho, Higashi-Kujyo, Minami-Ku, Kyoto, Japan
Tel: ++81-75-682-2338 Fax: ++81-75-682-2267
e-mail : sales-dep@epitex.com http://www.epitex.com/

♦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	θ 1/2	IF=100mA		±68		deg.
Rise Time	tr	IF=500mA		55		ns
Fall Time	tf	IF=500mA		75		ns

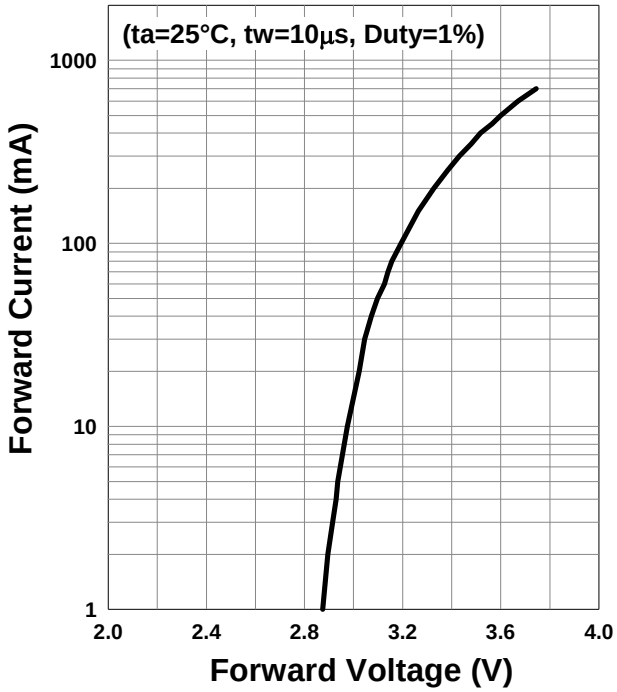
‡Radiated Power is measured by S3584-08.
‡Radiant Intensity is measured by CIE127-2700 Condition B.

♦Outer dimension (Unit: mm)

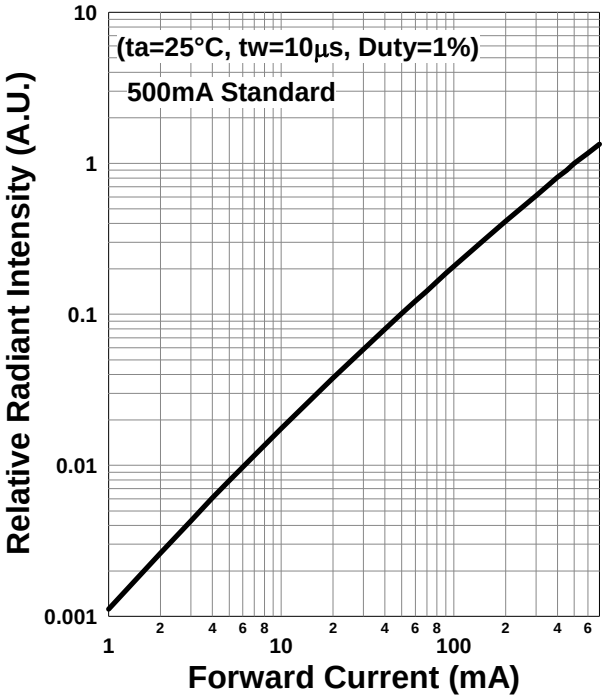


EPITEX INC.: 66-3 Minami-Kawabe Cho, Higashi-Kujyo, Minami-Ku, Kyoto, Japan
Tel: ++81-75-682-2338 Fax: ++81-75-682-2267
e-mail : sales-dep@epitex.com http://www.epitex.com/

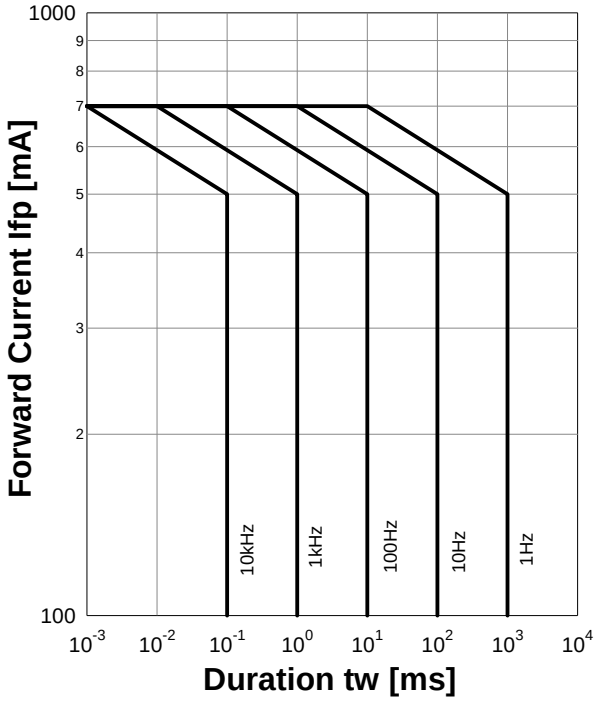
Forward Curent - Forward Voltage



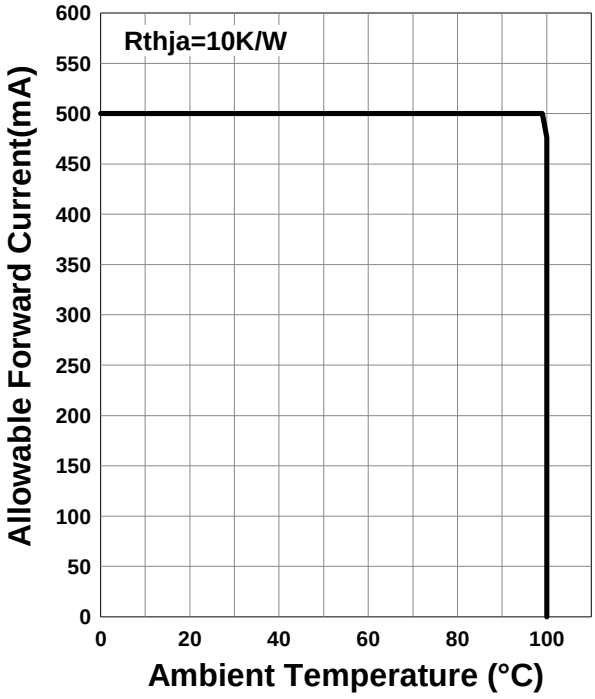
Relative Radiant Intensity - Forward Current



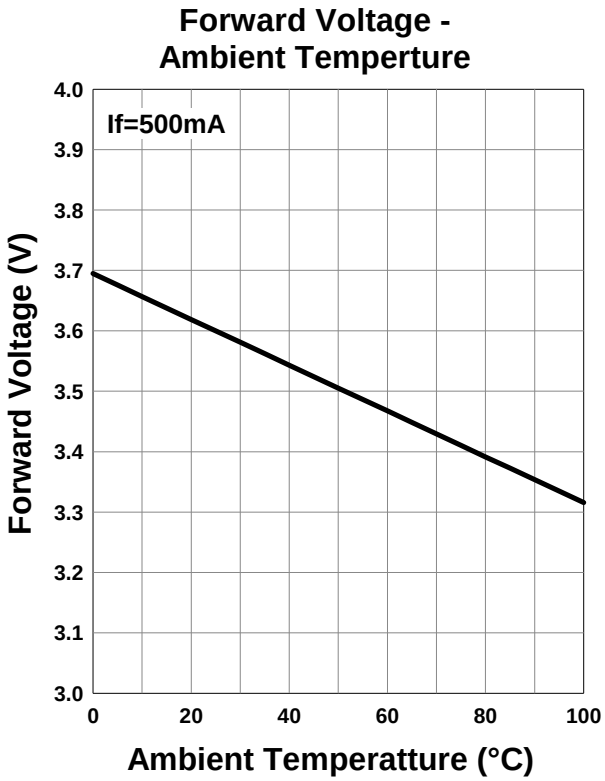
Forward Current - Pulse Duration

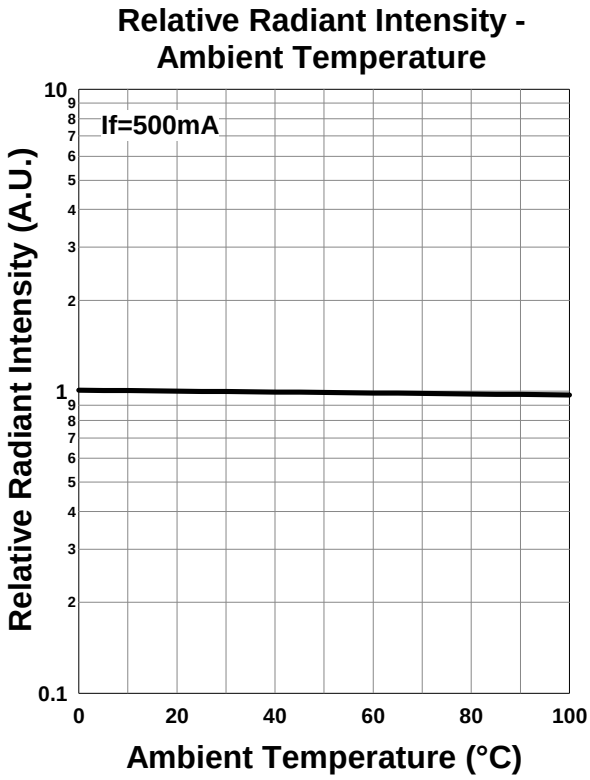


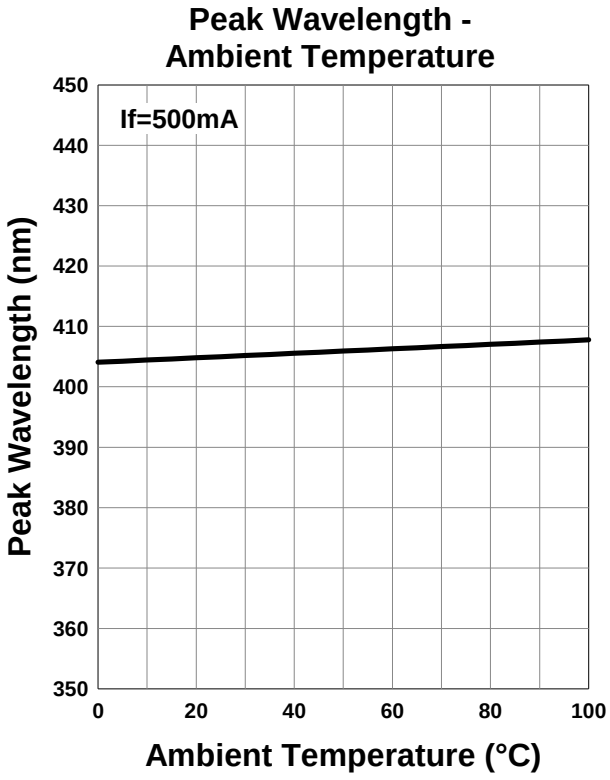
Allowable Forward Current - Ambient Temperature



EPITEX INC.: 66-3 Minami-Kawabe Cho, Higashi-Kujyo, Minami-Ku, Kyoto, Japan
Tel: ++81-75-682-2338 Fax: ++81-75-682-2267
e-mail : sales-dep@epitex.com http://www.epitex.com/

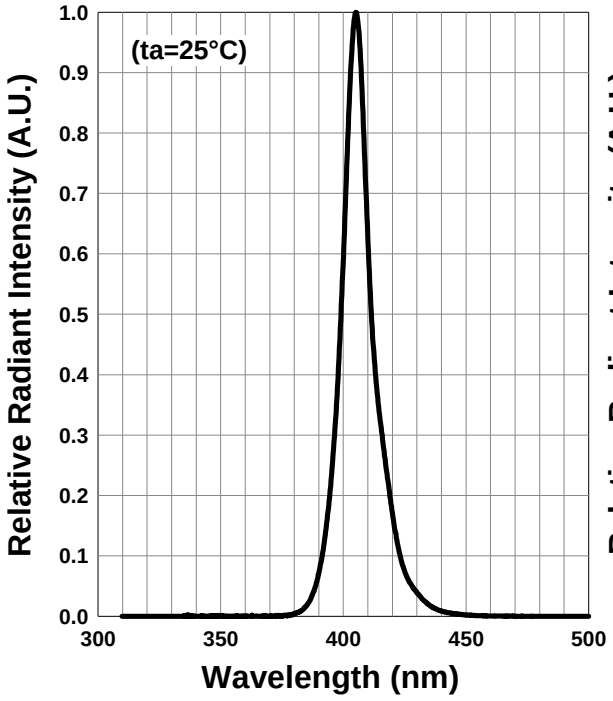




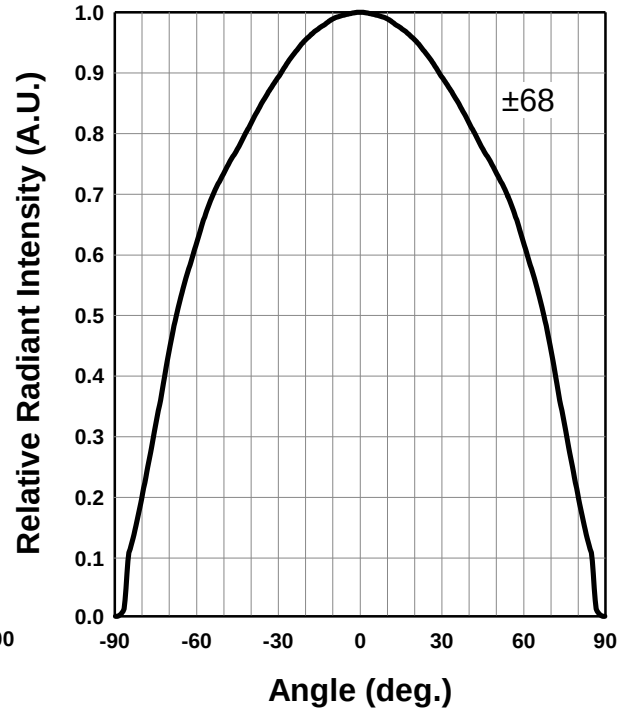


EPITEX INC.: 66-3 Minami-Kawabe Cho, Higashi-Kujyo, Minami-Ku, Kyoto, Japan
Tel: ++81-75-682-2338 Fax: ++81-75-682-2267
e-mail : sales-dep@epitex.com http://www.epitex.com/

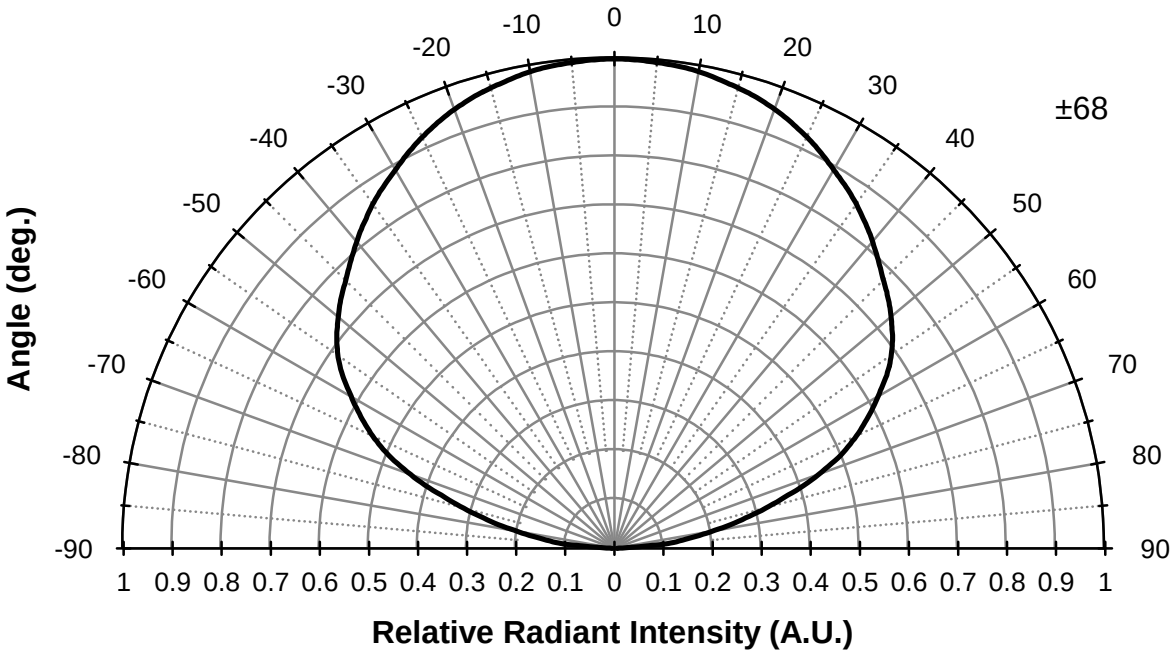
Relative Spectral Emission



Radiation Characteristics



Radiation Characteristics



EPITEX INC.: 66-3 Minami-Kawabe Cho, Higashi-Kujyo, Minami-Ku, Kyoto, Japan
Tel: ++81-75-682-2338 Fax: ++81-75-682-2267
e-mail : sales-dep@epitex.com http://www.epitex.com/

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.

2014.06

EPITEX INC.: 66-3 Minami-Kawabe Cho, Higashi-Kujyo, Minami-Ku, Kyoto, Japan
Tel: ++81-75-682-2338 Fax: ++81-75-682-2267
e-mail : sales-dep@epitex.com http://www.epitex.com/