

Lead (Pb) Free Product - RoHS Compliant

SMCC365-1100-04

High power UV LED in ceramics SMD

SMCC365-1100-04 is an AlGaN LED mounted on ceramic package with copper heat sink and is covered with silicone resin lens. On forward bias, it emits a band of 365nm. It is 35mW/sr typical of Radiant Intensity and ±35° of viewing half angle.

◆Specifications

Product Name Ceramics SMD UV LED
 Type No. SMCC365-1100-04

3) Chip

(1) Chip Material AlGaN

(2) Chip Dimension 1000um*1000um

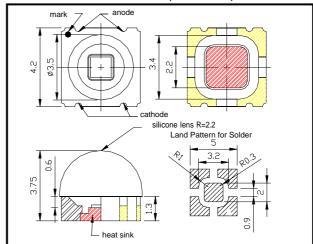
(3) Peak Wavelength 365nm typ.

4) Package

(1) Type Ceramic with Heat sink

(2) Lens Silicone Resin

♦Outer dimension (Unit: mm)



♦ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature	
Power Dissipation	Pb	2500	mW	Ta=25°C	
Forward Current	lF	500 mA		Ta=25°C	
Pulse Forward Current	lfp	700	mA	Ta=25°C	
Reverse Voltage	VR	10	V	Ta=25°C	
Junction Temperature	Tj	140	°C		
Thermal Resistance	Rthja	6	K/W		
Operating Temperature	TOPR	-30 ~ +130	°C		
Storage Temperature	TSTG	-30 ~ +150	°C		
Soldering Temperature	TSOL	265	°C		

[‡]Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

◆Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=350mA		4.2	5.0	V
Pulsed Forward Voltage	VF	IFP=0.7A		5.4	6.0	V
Radiated Power	Po	IF=350mA		50		mW
Radiant Intensity	le	I=350mA		10		mW/sr
Peak Wavelength	λР	Ir=50mA	360	365	370	nm
Half Width	Δλ	Ir=50mA		16		nm
Viewing Half Angle	θ 1/2	Ir=50mA		±35		deg.
Rise Time	tr	Ir=50mA		200		ns
Fall Time	tf	Ir=50mA		150		ns

[‡]Radiated Power is measured by S3584-08.

e-mail: <u>sales-dep@epitex.com</u>
http://www.epitex.com

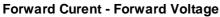
[‡]Soldering condition: Soldering condition must be completed within 3 seconds at 265°C

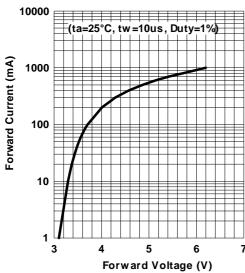
[‡]Thermal resistance: junction – mounted on metal block

[‡]Radiated intensity is measured by Ando Optical Multi Meter AQ2140 & AQ2741

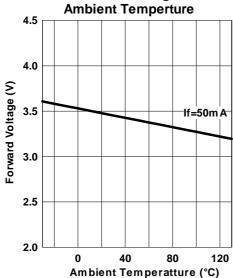


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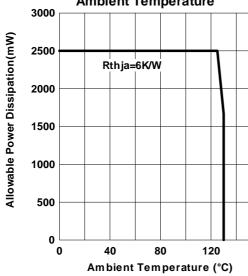




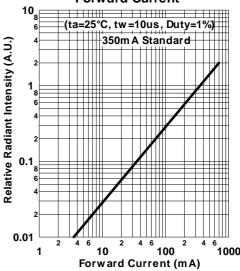
Forward Voltage -



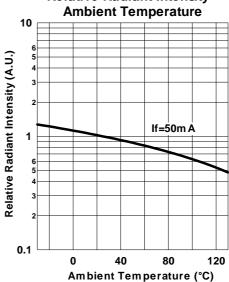
Allowable Power Dissipation -**Ambient Temperature**



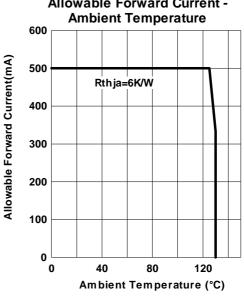
Relative Radiant Intensity -Forward Current



Relative Radiant Intensity -

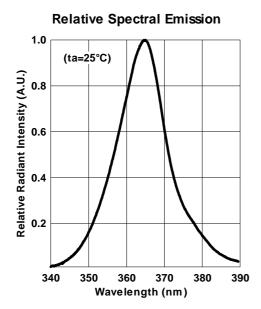


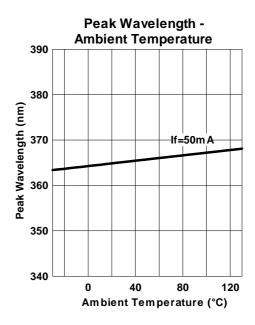
Allowable Forward Current -

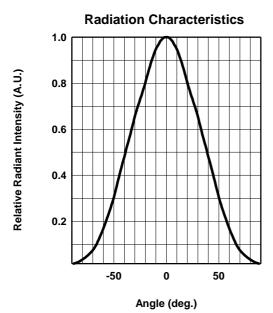




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