

PRELIMINARY

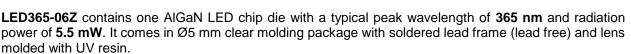
LED365-06Z

- UV LED
- 365 nm, 5.5 mW
- Chip: AlGaN, 350 x 350 µm, 1 pc.
- 5 mm Clear Molding, UV Resin
- Viewing Angle: 8°

Description



Rev. A1



Maximum Ratings (TCASE=25°C)

Devenerator	Currence of	Va	11	
Parameter	Symbol	Min.	Max.	Unit
Power Dissipation	PD		200	mW
Forward Current	I _F		50	mA
Pulse Forward Current *1	I _{FP}		100	mA
Reverse Voltage	₩F			¥
Thermal Resistance	R _{THJA}		300	K/W
Junction Temperature	T_J		120	°C
Operating Temperature	TCASE	- 20	+ 100	°C
Storage Temperature	T _{STG}	- 20	+ 100	°C
Lead Solder Temperature *2	T _{SLD}		+ 265	°C

*1 duty=1%, pulse width = 10 μ s

*2 must be completed within 5 seconds

Electro-Optical Characteristics (T_{CASE}=25°C)

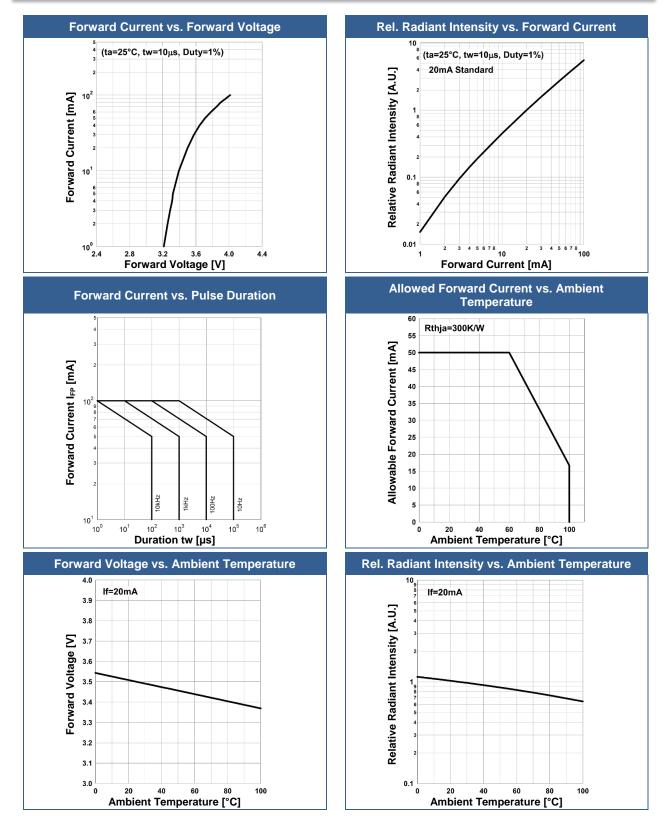
Parameter	Symbol	Conditions	Min.	Values Typ.	Max.	Unit
Peak Wavelength	λ _P	I⊧=20mA	360		370	nm
Half Width	$\Delta \lambda$	I⊧=20mA		11		nm
	VF	I⊧=20mA		3.5	4.0	N/
Forward Voltage	VFP	IFP=100mA		4.0		V
Radiated Power *1	р.	I⊧=20mA		5.5		mW
Radiated Power	Po	IFP=100mA		30		TTIVV
Dediant Interaity *2	le	I⊧=20mA		71		mW/sr
Radiant Intensity *2	IE	IFP=100mA		390		
Viewing Angle	20 1/2	I⊧=20mA		8		deg.
Rise Time	tr	IF=20mA		15		ns
Fall Time	t _f	I⊧=20mA		15		ns

*1 measured by S3584-08

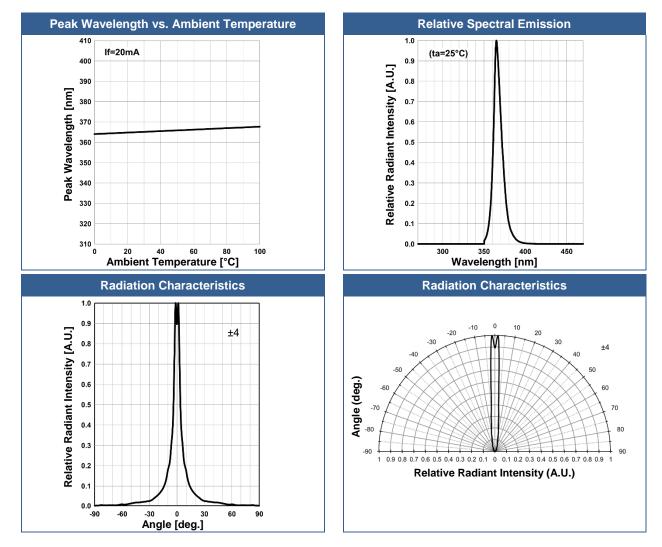
*2 measured by CIE127-2007 Condition B



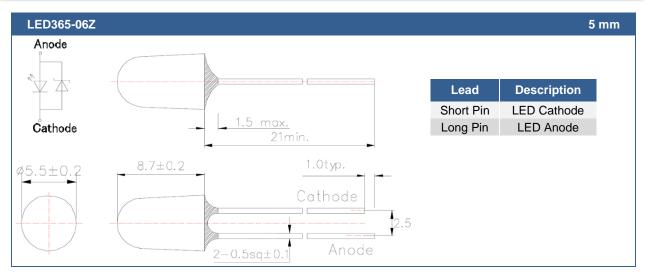
Typical Performance Curves







Outline Dimensions



All Dimensions in mm

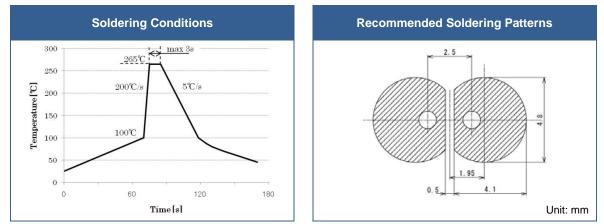


Precautions

Soldering:

- Do avoid overheating of the LED
- Do avoid electrostatic discharge (ESD)
- Do avoid mechanical stress, shock, and vibration
- Do only use non-corrosive flux
- Do not apply current to the LED until it has cooled down to room temperature after soldering

Recommended soldering conditions:



Above table specifies the maximum allowed duration and temperature during soldering. It is strongly advised to perform soldering at the shortest time and lowest temperature possible.

Cleaning:

Cleaning with isopropyl alcohol, propanol, or ethyl alcohol is recommended

DO NOT USE acetone, chloroseen, trichloroethylene, or MKS DO NOT USE ultrasonic cleaners

Static Electricity:

LEDs are sensitive to electrostatic discharge (ESD). Precautions against ESD must be taken when handling or operating these LEDs. Surge voltage or electrostatic discharge can result in complete failure of the device.

Radiation:

During operation these LEDs do emit light, which could be hazardous to skin and eyes, and may cause cancer. Do avoid exposure to the emitted light. Protective glasses if needed. It is further advised to attach a warning label on products/systems.

Operation:

Do only operate LEDs with a current source.

Running these LEDs from a voltage source will result in complete failure of the device. Current of a LED is an exponential function of the voltage across it. Usage of current regulated drive circuits is mandatory.



Revisions History

Rel.	Rel. Date	Chapter	Modification	Page
A1	2017-02-01	-	Initial release	-

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