

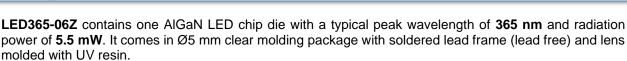
LED365-06Z

- 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



02/2017



Maximum Ratings (TCASE=25°C)

Parameter	Symbol	Va	Unit		
Parameter	Symbol	Min.	Max.	Unit	
Power Dissipation	PD		200	mW	
Forward Current	IF		50	mA	
Pulse Forward Current *1	IFP		100	mA	
Reverse Voltage	₩₽			¥	
Thermal Resistance	Rтнја		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)

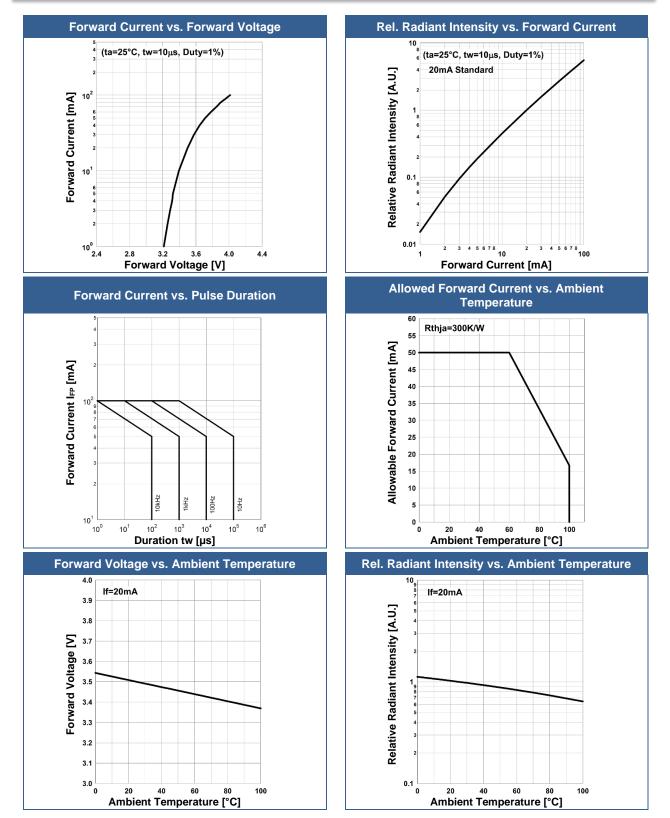
Parameter	Symbol	Conditions	Min.	Values Typ.	Max.	Unit
Peak Wavelength	λp	I _F =20mA	360		370	nm
Half Width	$\Delta \lambda$	I _F =20mA		11		nm
Forward Voltage	VF	I _F =20mA		3.5	4.0	V
	VFP	IFP=100mA		4.0		
Radiated Power *1	Po	I _F =20mA		5.5		mW
	PO	IFP=100mA		30		
Radiant Intensity *2	1-	I _F =20mA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

*¹ measured by S3584-08

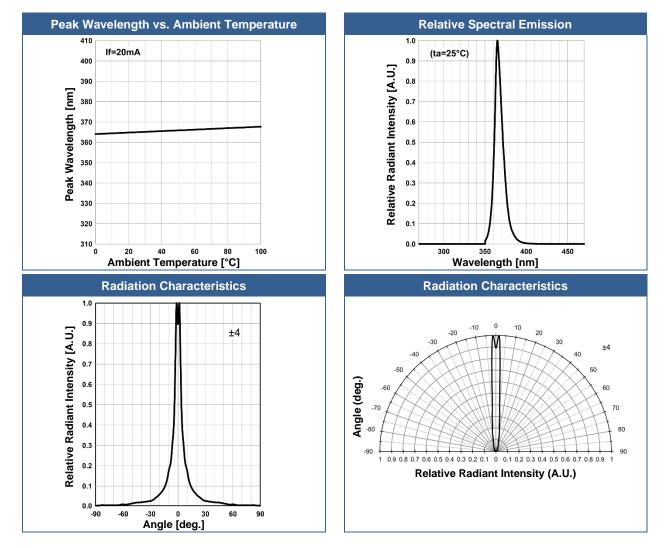
*2 measured by CIE127-2007 Condition B



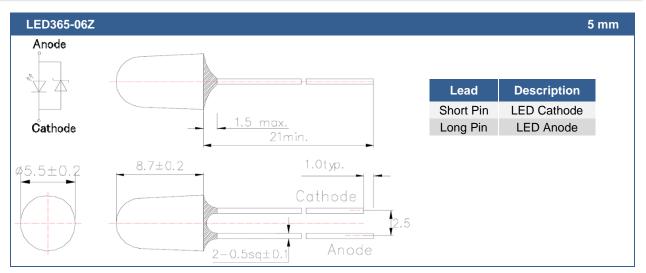
Typical Performance Curves







Outline Dimensions



All Dimensions in mm

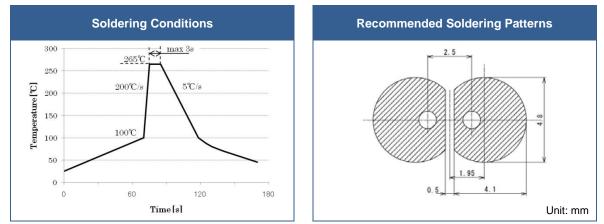


Precautions

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.

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The above specifications are for reference purpose only and subjected to change without prior notice