LED365-06Z

- Ultraviolet Light Emitting Diode
- 365 nm, 5.5 mW
- AlGaN structure
- UV-resistant clear silicone resin
- Integrated Zener Diode





Description

LED365-06Z is an **AIGaN** based UV LED, typically emitting at 365nm with a typical output power of 5.5 mW. It comes in a hermetically sealed UV-resistant clear 5 mm silicone resin, and features an **integrated Zener diode** for reverse current protection. **LED365-06Z** is widely used for UV curing, and imaging of dyes, inks and markers.

Maximum Rating (T_{CASE} = 25°C)

Parameter	Symbol	Val	Heit	
		Min.	Max.	Unit
Power Dissipation, DC	P_D		200	mW
Forward Current	I _F		50	mA
Pulse Forward Current*	<i>I</i> FP		100	mA
Reverse Voltage	V_{R}		/	V
Thermal Resistance	R_{thja}		330	K/W
Junction Temperature	T_{J}		120	°C
Operating Temperature	T_{OPR}	- 40	+ 100	°C
Storage Temperature	$T_{ m STG}$	- 40	+ 100	°C
Soldering Temperature (max 5s)	T_{SOL}		+ 250	°C



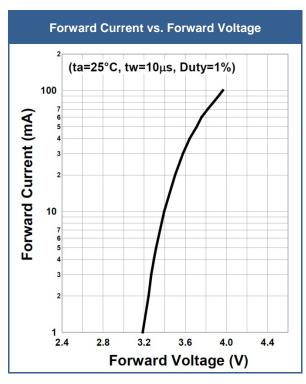
Electro-Optical Characteristics (T_{CASE} = 25°C, I_F = 20 mA)

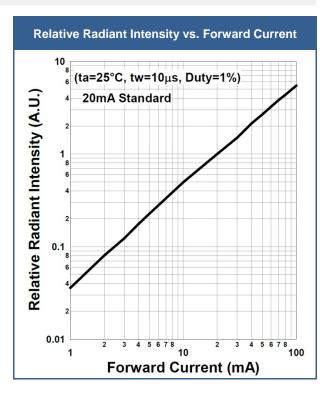
Parameter	Symbol	Values			Unit
		Min.	Тур.	Max.	Offic
Peak Wavelength ^{*1}	λ_{P}	360	365	370	nm
Spectral Width (FWHM)	$\Delta \lambda$		17		nm
Forward Voltage	V_{F}		3.5	4.0	V
	$V_{\sf FPULSE}$		4*		V
Radiated Power	Po		5.5		mW
	P _{O PULSE}		30*		mW
Viewing Half Angle	Θ _{1/2}		± 2		deg.
Rise/Fall Time	t_{f}		50/55		ns

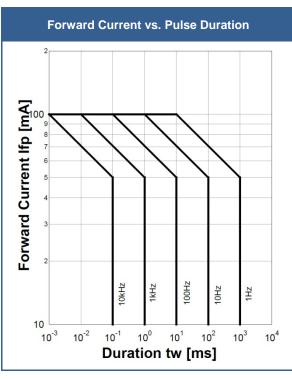
^{*}Pulse Condition: Duty cycle = 1%, pulse width = 10 µs, pulse current = 100mA

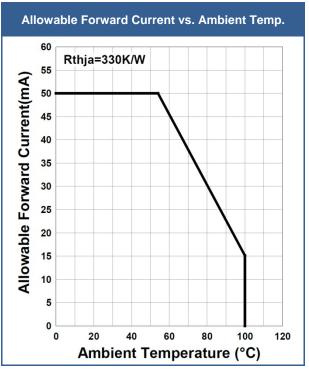
^{*} Duty cycle = 1%, pulse width = 10 μ s

Performance Characteristics

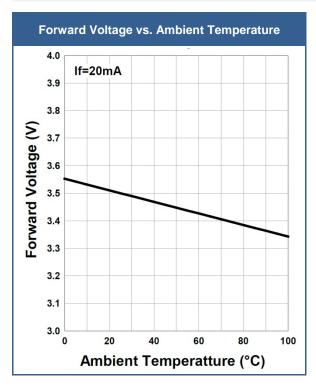


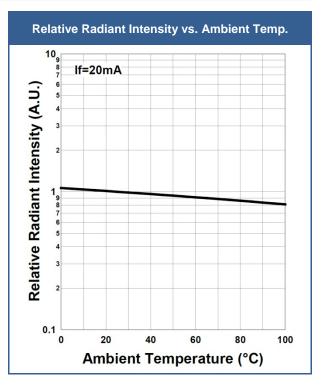


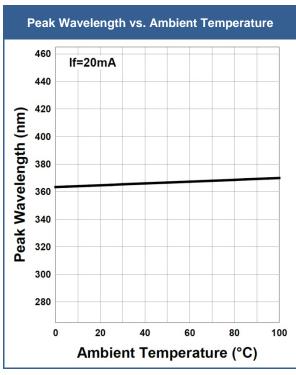


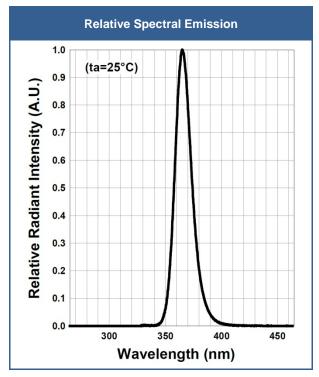


Performance Characteristics

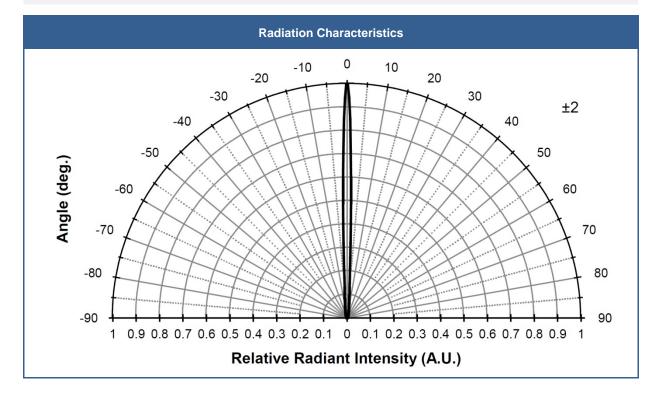




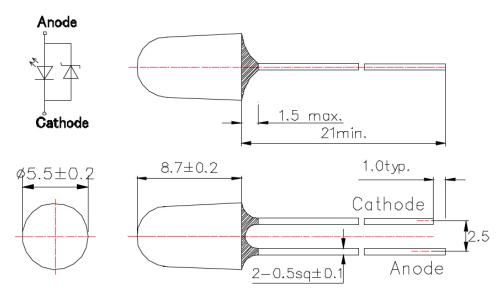




Performance Characteristics



Outline Dimensions



All dimensions in mm

[©] All Rights Reserved

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