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uvc germicidal chip led

SMD UVC led for sterilization and disinfection, different powers are available. Suitable for indoor, public places and other venues

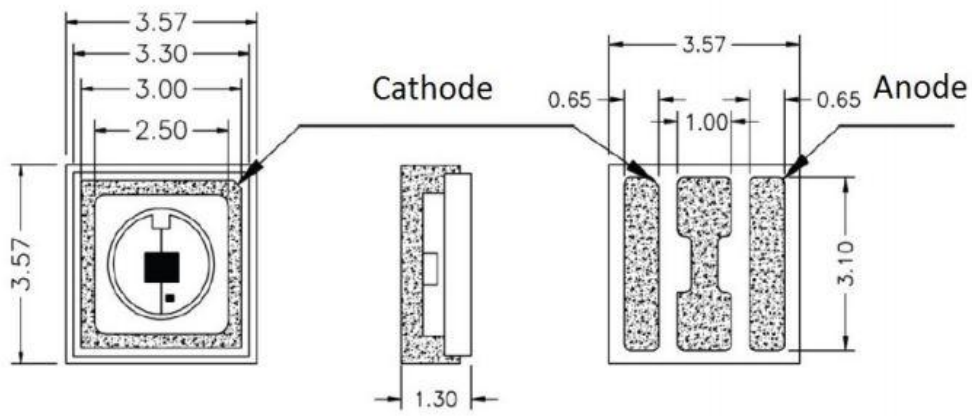
PART NO.: AL-H35GAU27-E6IA-P9

0.4W power SMD 3535 UVC 275nm led with 5-7mW radiant flux with competitive price

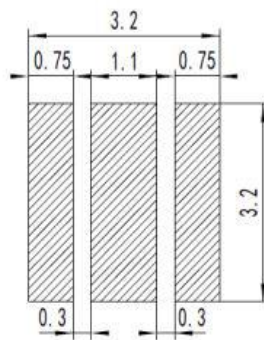
Features :

1. Chip Material: InGaN
2. Lens Color: Water Clear
3. Lens Material: Au plating on Cu Substrate
4. Emitting Color: UV
5. Pb free.
6. The product itself will remain within RoHS compliant version.

Package Dimensions

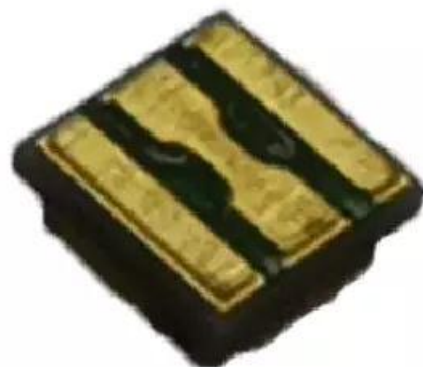


Recommend Pad Layout



Notes:

1. All dimensions are in mm.
2. Tolerance is ± 0.25 mm unless otherwise noted.



The ultraviolet wavelength is short and the energy is strong. It can cause chemical reactions and substance changes under exposure. After research and development, it has been popularized in the curing, medical, photocatalyst, and banknote detection markets. Demand in the market has grown rapidly. In recent years, there have been emerging air sterilization and purification, still water sterilization and flowing water sterilization applications, and the overall UV demand has increased significantly.

Technical data sheet:

Absolute Maximum Ratings at Ta=25 °C:

Parameter	Symbol	Maximum	Unit
Power Dissipation	Pd	0.4	W
Peak Forward Current (Duty 1/10 400msec Pulse Width)	IFP	200	mA
Forward Current	IF	60	mA
Thermal Resistance, Junction-Case	Rth, J-C1	15	°C/W
Electrostatic Discharge (HBM)	ESD	4000	V
LED Junction Temperature	TJ	125	°C
Operating Temperature Range	Topr	-30°C to +60°C	
Storage Temperature Range	Tstg	-30°C to + 100°C	

Lead Soldering Temperature[2.0mm from body]	T_{sol}	Reflow Soldering : 175 °C for 10 sec.
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Electrical and Optical Characteristics:

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Radiated Flux	Φ_e	IF=60mA	5	7	-	mW
Radiant Irradiance	E_e	IF=60mA	-	1.0	-	mW/cm ²
Peak Wavelength	λ_p	IF=60mA	270	275	280	nm
Spectrum Line Halfwidth	$\Delta\lambda$	IF=60mA	-	11	-	nm
Forward Voltage	V_F	IF=60mA	5.0	6.0	7.0	V
Viewing Angle	$2\theta_{1/2}$	IF=60mA	-	120	-	Deg
Reverse Current	I_R	V R=5V	-	-	50	μ A

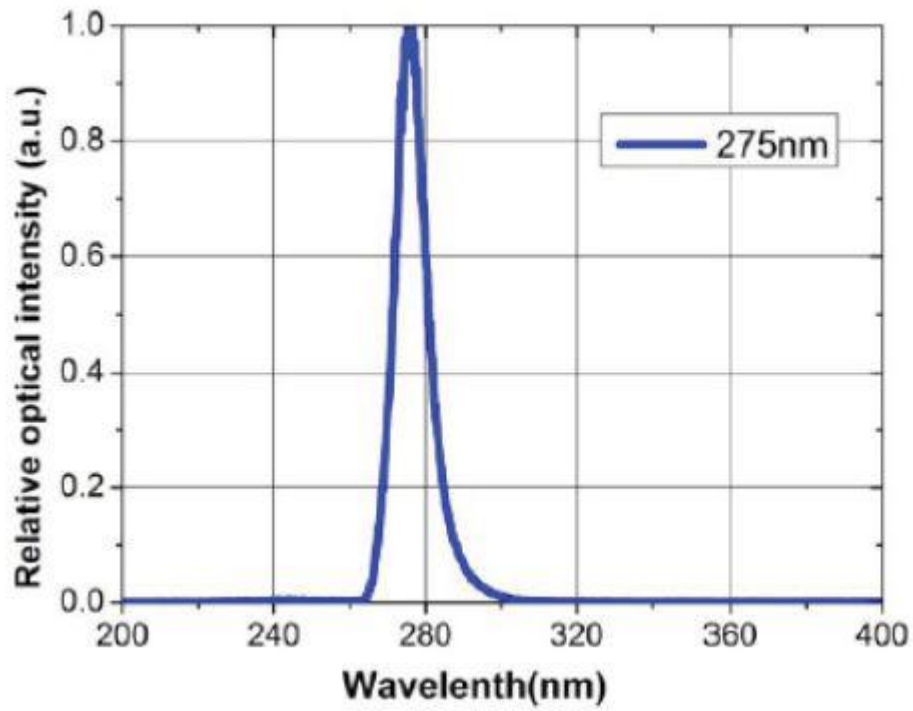
Note: 1. Forward voltage measurement allowance is $\pm 0.2V$.

2. Radiant flux measurement allowance is $\pm 10\%$.

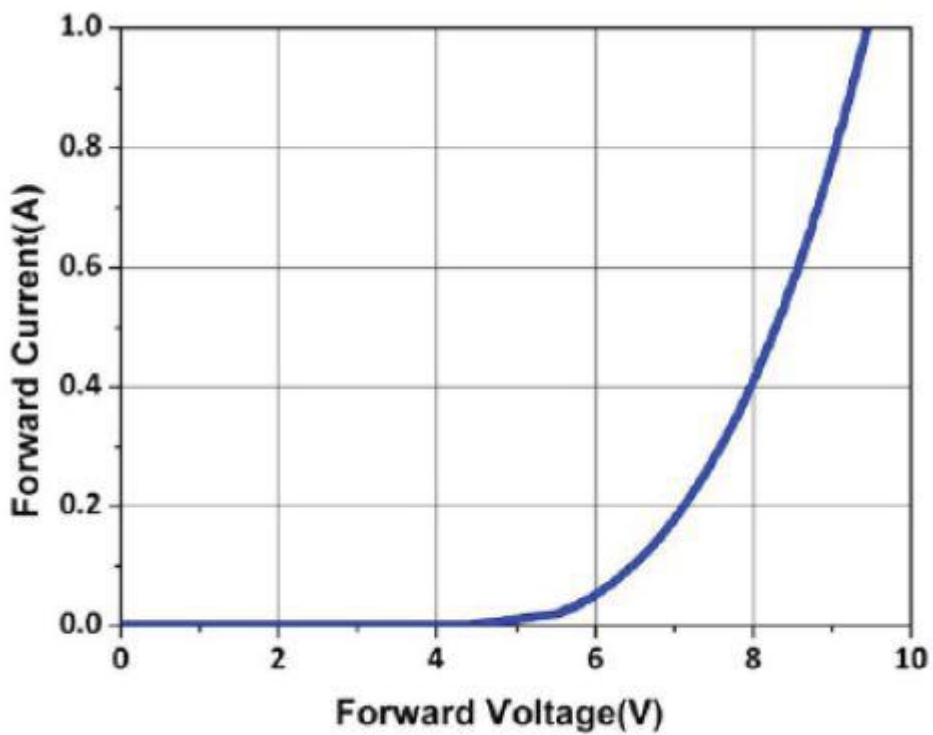
3. Irradiance tested at a distance 10mm from Al reflector.

4. Wavelength measurement allowance is $\pm 3nm$.

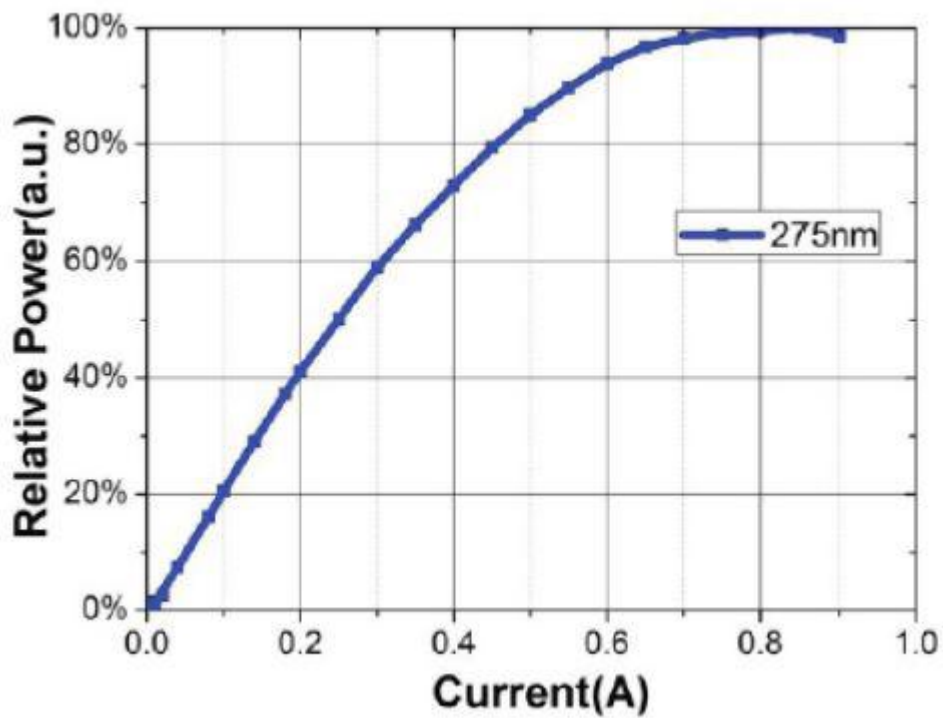
Relative Spectral distribution



I-V Characteristic

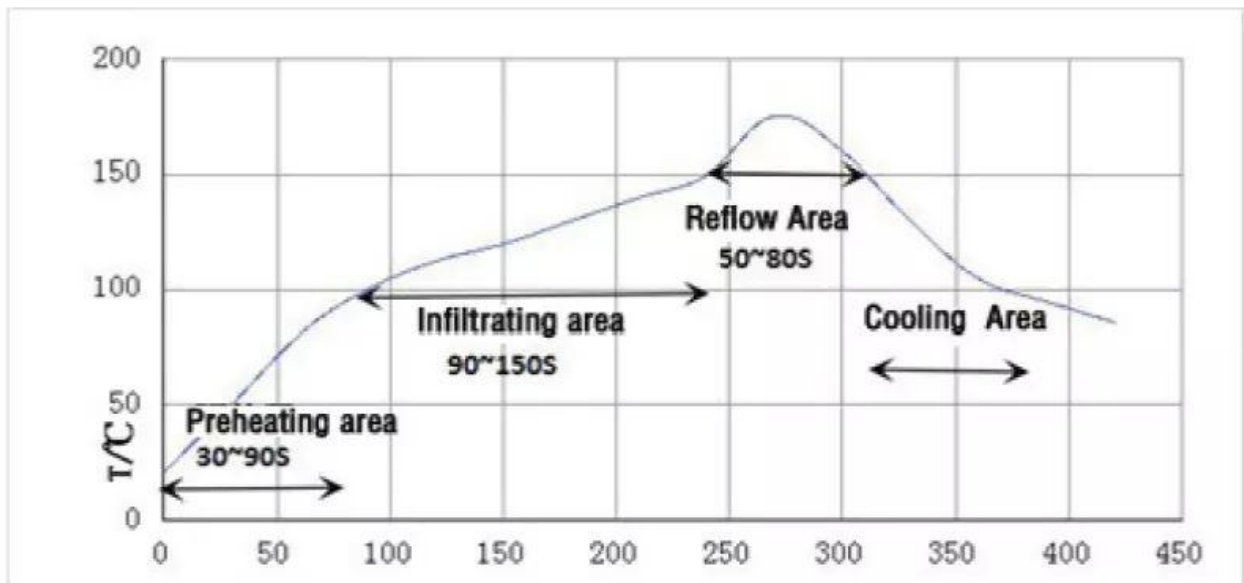


Radiated power VS current



Usage Notice:

It is recommend to use low temperature solder paste for reflow, and the temperature curve is shown in the following diagram.



PRODUCT APPLICATION



Air Disinfection



Analytics & Data



Baby Products



Consumer Appliances



Food & Beverage Processing



Healthcare Disinfection



Kitchen & Bath



Medical



Personal Health



Restaurant Household



Water Disinfection



Transport & Areas

Related News:

A study by the National Institutes of Health pointed out that after treatment with UV LEDs, N95 masks can be completely sterilized and can maintain operational functions, and can be reused up to three times. The use of UV LED sterilization can extend the service life of N95 masks and can reduce medical personnel from direct air contact with diagnosed patients.

SHIPPING



If order quantity is big, we will arrange production as soon as possible according to customer needs. Providing quality service to customers is the basic premise of our Sales.

Welcome to inquire about our products!

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For UV sterilizer, water purification and disinfection and other medical application, 275nm SMD 3535 UVC led is your best choice! We have enough stock, fast delivery and competitive price are our most advantages.