

## **DATASHEET**

EOLC-1350-27-1

**Infrared InGaAs LED Chip** 

#### **Features:**

• Size: 350 µm

Thickness: 180 μmAu alloy pad: 105μm

• Bond-pad: n-up

### **Applications:**

- Infrared sensing
- High power applications
- Industrial, Scientific
- Medical applications



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## **Typical Electro-Optical Characteristics**

Measurement conditions

T<sub>ambient</sub> = 25 °C

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Emitting Color		Infrared				
Forward Voltage	V	$I_f = 20 \text{ mA}$		0.92		V
	$V_f$	$I_f = 100 \text{ mA}$		1.24		V
Peak Wavelength	$\lambda_{D}$	$I_f = 20 \text{ mA}$		1350		nm
FWHM	Δλ	$I_f = 20 \text{ mA}$		61		nm
Radiant Power	D	$I_f = 20 \text{ mA}$		5.2		mW
	Po	$I_f = 100 \text{ mA}$		17.5		mW
Reverse Current	$I_R$	$V_R = 5 V$			5	μΑ
Rise Time	$T_R$	$I_f = 100 \text{ mA}$		20		ns
Fall Time	T <sub>F</sub>	$I_f = 100 \text{ mA}$		41		ns

## **Maximum Ratings**

Parameter	Symbol	Min	Max	Unit
Forward Current (T = 25°C, infinite heatsink)	I <sub>f, max</sub>		100	mA
Reverse Voltage	$V_R$		5	V
Operating Temperature	T <sub>op</sub>	-40	+85	°C

### **Mechanical Dimensions**

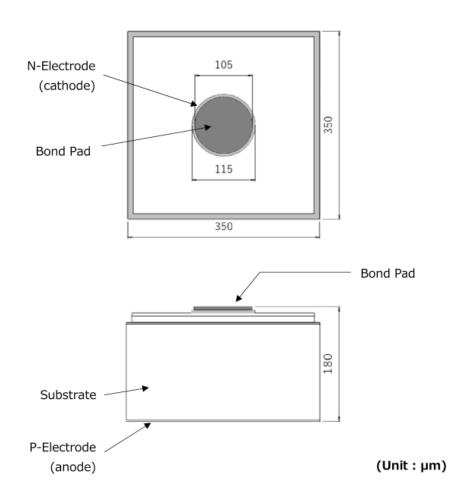
Parameter	Value		Unit
Chip size	350	±25	μm
Thickness	180	±10	μm
P-pad (bottom) / Au alloy	-	-	μm
N-pad (top) / Au alloy	105	±10	μm



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# **Outline Drawing**



Dice delivered on adhesive film.



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#### **Notice**

The information describes the type of component and shall not consider as assured characteristics. Terms of delivery and rights to change reserved. The data sheet may change without prior notification; the only valid issue and current revision can be on our website. Due to technical requirements, components may contain dangerous substances.

It is the responsibility of the customer to evaluate and ensure that the use of the products in their specific applications complies with relevant safety standards and regulations. Customers must assess the exposure conditions within their systems and ensure that appropriate measures are taken to prevent exceeding the permissible exposure limits outlined in IEC 62471. EPIGAP OSA Photonics GmbH does not assume liability for any non-compliance arising from the integration or usage of LEDs in customer systems.

Parameters can vary in different applications. The customer must validate all operating parameters for each application. EPIGAP OSA Photonics GmbH does not have the responsibility for the reliability and the degradation behavior of products made with EPIGAP OSA Photonics GmbH diodes as they depend not only on the product itself but also on the operation, manufacturing or design of the final products. The customer is responsible for ensuring the long-term stability of the product according to their requirements. If components are used in toys or life support systems, EPIGAP OSA Photonics GmbH must expressly authorize the use of the components prior to incorporating them into the customer's systems! Packaging: EPIGAP OSA Photonics GmbH uses recyclable packages.

### **EPIGAP OSA Photonics GmbH**

www.epigap-osa.de

Köpenicker Str.325 12555 Berlin Germany Tel. +49 (0)30 6576 3764 sales@epigap-osa.de

