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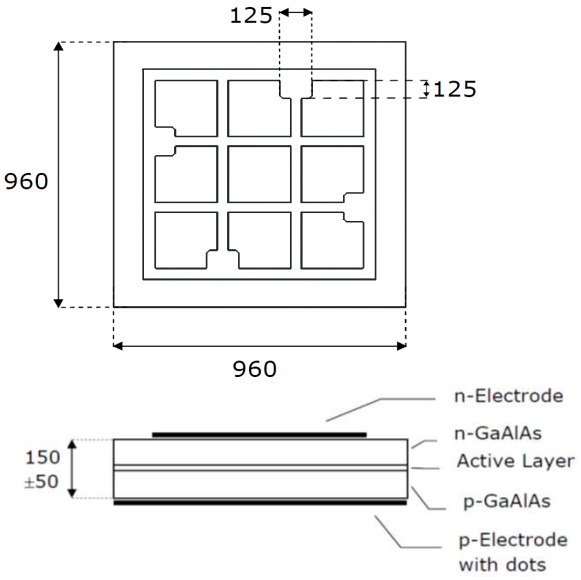
Data Sheet

LED Chip VIS — EOLC-690-21 — Rev. 06, 2017

Radiation	Type	Electrodes
Deep red	AlGaAs/AlGaAs, DDH	N (cathode) up



Dimensions

Typ. thickness: 150 ± 25 µm
Bonding pads: 125 ± 25 µm
Cathode: gold alloy, 1.5 µm
Anode: gold alloy, 0.5 µm
structured, 25% covered

Optical and Electrical Characteristics

T_{amb}= 25°C, unless otherwise specified

Parameter	Test cond.	Symbol	Min	Typ	Max	Unit
Forward voltage	I_F=20 mA	V_F		1.8	1.95	V
Forward voltage	I_F=350 mA	V_F		1.95	2.2	V
Reverse current	V_R=5 V	I_R			100	µA
Radiant power*	I_F=20 mA	Φ_e	1.6	2.5		mW
Radiant power*	I_F=50 mA	Φ_e	4.2	7		mW
Radiant power*	I_F=350 mA	Φ_e	28	44		mW
Peak wavelength	I_F=100 mA	λ_p	680	690	700	nm
FWHM	I_F=300 mA	$\Delta\lambda_{0.5}$		24		nm
Switching time	I_F=20 mA	t_r, t_f		50; 35		ns

*Measured on bare chip on TO-39 header

Packing

Chips on adhesive film with wire bond side up

Art. No. 112 008

RoHS COMPLIANT Pb-Free

We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.