

EPIGAP Optronik GmbH

Koepenicker Str. 325b
D-12555 Berlin
Fon: +49 (0)30 657637 60
Fax: +49 (0)30 657637 70
sales@epigap-optronic.de



Data Sheet

LED Chip deep red

EOLC-680-25D

Rev. 03, 2017

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

Dimensions
A technical drawing of a square LED chip. The outer square has a side length of 325 micrometers. Inside it, there is a smaller square with a side length of 120 micrometers. In the center of this inner square is a circular anode. The label 'LED-03' is located below the diagram. <p>Typ. thickness: 150±25 µm Cathode: gold alloy, thickness 1.5 µm Anode: gold alloy, thickness 0.5 µm, structured, 25% covered</p>

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		1.9	2.3	V
Reverse voltage	I _R =100 µA	V _R	5			V
Radiant power*	I _F =20 mA	Φ _e	1.7	3		mW
Peak wavelength	I _F =20 mA	λ _p	670	680	690	nm
FWHM	I _F =20 mA	Δλ _{0.5}		25		nm
Switching time	I _F =20 mA	t _r , t _f		40		ns

*Measured on bare chip on TO-18 header

Packing

Chips on adhesive film with wire bond side up

Art. No. 112 003



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.