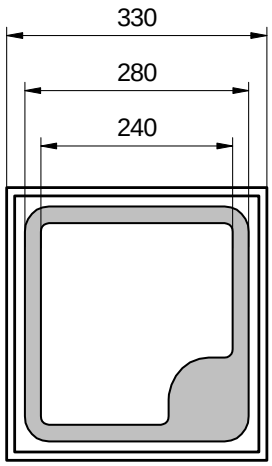
LED - Chip

ELC-870-15-1

26.04.2012 rev. 10

Radiation	Type	Technology	Electrodes
Infrared	DDH	AlGaAs/AlGaAs	P (anode) up



LED-23

typ. dimensions (µm)

typ. thickness
180 µm

anode
gold alloy, 1.5 µm

cathode
gold alloy, 0.5 µm
structured, 25% covered

Optical and Electrical Characteristics

T_{amb} = 25℃, unless otherwise specified

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I_F = 20 mA	V_F		1.35	1.55	V
Reverse voltage	I_R = 100 µA	V_R	5			V
Radiant power[1]	I_F = 20 mA	Φ_e	3.5	5.0		mW
Radiant power[2]	I_F = 20 mA	Φ_e		8.0		mW
Peak wavelength	I_F = 20 mA	λ_p	860	870	880	nm
Spectral bandwidth at 50%	I_F = 20 mA	$\Delta\lambda_{0.5}$		45		nm
Switching time	I_F = 20 mA	t_r, t_f		10/20		ns

[1]Measured on bare chip on TO-18 header with JENOPTIK Polymer Systems equipment

[2]Measured on epoxy covered chip on TO-18 header with JENOPTIK Polymer Systems equipment

Labeling

Type	Lot N°	Φ_e(typ) [mW]	V_F(typ) [V]	Quantity
ELC-870-15-1				

Packing: Chips on adhesive film with wire-bond side on top

JENOPTIK Polymer Systems GmbH, D-12555 Berlin, Köpenicker Str.325 b, Haus 201
Tel.: +49-30-6576 2543, Fax : +49-30-6576 2545