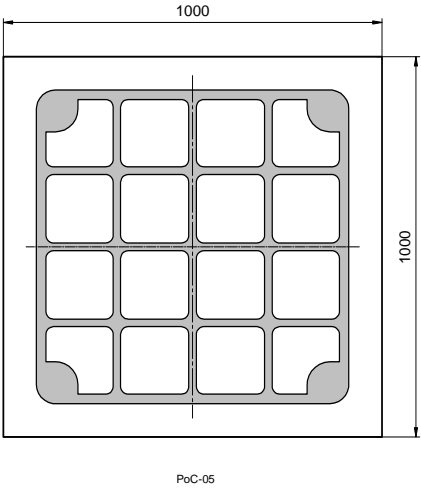


Radiation	Type	Technology	Electrodes
Infrared	DDH	AlGaAs/AlGaAs	N (cathode) up

	typ. dimensions ( $\mu\text{m}$ )	
	<u>typ. thickness</u> 150 ( $\pm 25$ ) $\mu\text{m}$	
	<u>cathode</u> gold alloy, 1.5 $\mu\text{m}$	
	<u>anode</u> gold alloy, 0.5 $\mu\text{m}$ structured, 25% covered	

### Optical and Electrical Characteristics

$T_{\text{amb}} = 25^\circ\text{C}$ , unless otherwise specified

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 20 \text{ mA}$	$V_F$		1.4	1.6	V
Forward voltage <sup>2</sup>	$I_F = 350 \text{ mA}$	$V_F$		1.7	2.0	V
Reverse voltage	$I_R = 10 \mu\text{A}$	$V_R$	5			V
Radiant power <sup>1</sup>	$I_F = 20 \text{ mA}$	$\Phi_e$	2.0	2.4		mW
Radiant power <sup>2</sup>	$I_F = 350 \text{ mA}$	$\Phi_e$	35	40		mW
Peak wavelength	$I_F = 20 \text{ mA}$	$\lambda_P$	800	810	815	nm
Spectral bandwidth at 50%	$I_F = 20 \text{ mA}$	$\Delta\lambda_{0.5}$		30		nm
Switching time	$I_F = 20 \text{ mA}$	$t_r, t_f$		60		ns

<sup>1</sup>Measured on bare chip on TO-18 header with JENOPTIK Polymer Systems equipment

<sup>2</sup>Measured on bare chip glued on a  $\varnothing 8 \times 1 \text{ mm}$  Cu header (10 s after switched on) with JENOPTIK Polymer Systems equipment (for information only)

### Labeling

Type	Lot N°	$\Phi_e(\text{typ})$ [mW]	$V_F(\text{typ})$ [V]	Quantity
ELC-810-21				

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