

Radiation	Type	Technology	Electrodes
Infrared	Point Source	AlGaAs/GaAs	P (anode) up

<p>Ø250<sup>+10</sup><sub>-5</sub></p> <p>emitting area</p> <p>bonding area</p> <p>PS-09</p> <p>Ø100</p>	typ. dimensions ( $\mu\text{m}$ )	
	typ. thickness 260 ( $\pm 20$ ) $\mu\text{m}$	
	cathode gold alloy, 0.5 $\mu\text{m}$	
	anode gold alloy, 1.5 $\mu\text{m}$	

### Maximum Ratings

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward current (DC)		$I_F$			100	mA
Peak forward current	$t_p \leq 50 \mu\text{s}$ , $t_p/T = 1/2$	$I_{FM}$			120	mA

### Optical and Electrical Characteristics

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 100 \text{ mA}$	$V_F$		1.4	1.6	V
Reverse voltage	$I_R = 100 \mu\text{A}$	$V_R$	5			V
Radiant power*	$I_F = 100 \text{ mA}$	$\Phi_e$	0.5	0,8		mW
Peak wavelength	$I_F = 100 \text{ mA}$	$\lambda_p$	930	940	950	nm
Spectral bandwidth at 50%	$I_F = 100 \text{ mA}$	$\Delta\lambda_{0.5}$		50		nm
Switching time	$I_F = 100 \text{ mA}$	$t_r, t_f$		600		ns

\*Measured on bare chip on TO-18 header with EPIGAP equipment

### Labeling

Type	Lot N°	$\Phi_e(\text{typ})$ [mW]	$V_F(\text{typ})$ [V]	Quantity
ELC-940-17-70				

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

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.