

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

<p style="text-align: center;">LED-07</p>	typ. dimensions ( $\mu\text{m}$ )	
	<u>typ. thickness</u> 180 $\mu\text{m}$  <u>anode</u> gold alloy, 1.5 $\mu\text{m}$  <u>cathode</u> gold alloy, 0.5 $\mu\text{m}$  structured 25 %	

### Optical and Electrical Characteristics

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 20 \text{ mA}$	$V_F$	1.3	1.5	1.7	V
Forward voltage	$I_F = 100 \text{ mA}$	$V_F$		1.65		V
Reverse voltage	$I_R = 100 \mu\text{A}$	$V_R$	5			V
Radiant power*	$I_F = 20 \text{ mA}$	$\Phi_e$	2.5	3.6		mW
Radiant power*	$I_F = 100 \text{ mA}$	$\Phi_e$		18		mW
Peak wavelength	$I_F = 20 \text{ mA}$	$\lambda_p$	750	765	780	nm
Spectral bandwidth at 50%	$I_F = 20 \text{ mA}$	$\Delta\lambda_{0.5}$	20	35	50	nm
Switching time	$I_F = 20 \text{ mA}$	$t_r, t_f$		20, 30		ns

\*Measured on bare chip on TO-18 header with JENOPTIK Polymer Systems equipment

Note: All measurements carried out with JENOPTIK Polymer Systems equipment

### Labeling

Type	Lot N°	$\Phi_e(\text{typ})$ [mW]	$V_F(\text{typ})$ [V]	Quantity
ELC-770-12		@ 20 mA	@ 20 mA	

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

Environmental		Symbol	Min	Typ	Max	Unit
Storage Temperature	on Blue Tape	$T_{\text{STG}}$	15		30	$^{\circ}\text{C}$
Storage Relative Humidity	on Blue Tape	$\text{RH}_{\text{STG}}$	40		75	% RH
Storage Time	on Blue Tape	$t_{\text{STG}}$			1	year

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.

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