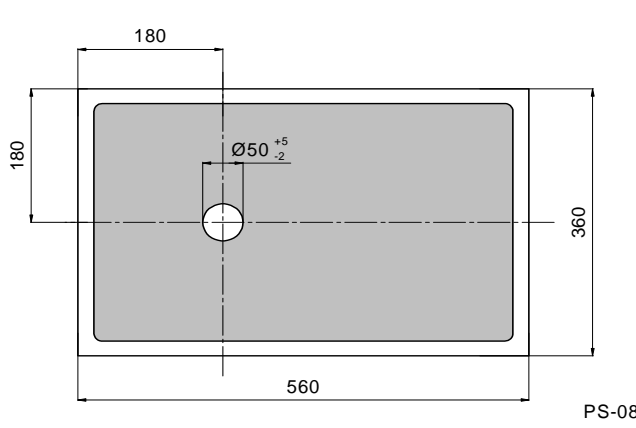


Radiation	Type	Technology	Electrodes
Infrared	Point Source	AlGaAs/AlGaAs	N (cathode) up

	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 $\mu\text{m}$

### Maximum Ratings

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward current (DC)		$I_F$			35	mA
Peak forward current	$t_p \leq 50 \mu\text{s}$ , $t_p/T = 1/2$	$I_{FM}$			70	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	$I_F = 20 \text{ mA}$	$V_F$		2.2	2.5	V
Reverse voltage	$I_R = 100 \mu\text{A}$	$V_R$	5			V
Radiant power <sup>1</sup>	$I_F = 20 \text{ mA}$	$\Phi_e$	0.5	0.9		mW
Peak wavelength	$I_F = 20 \text{ mA}$	$\lambda_P$	730	740	750	nm
Spectral bandwidth at 50%	$I_F = 20 \text{ mA}$	$\Delta\lambda_{0.5}$		30		nm

<sup>1)</sup> 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-740-29-20				