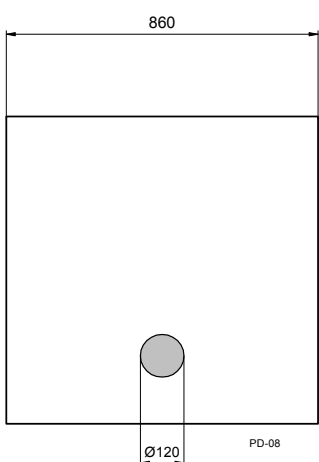


Wavelength range	Type	Technology	Electrodes
Infrared, selective	Integrated filter	GaAs	P (anode) up

	typ. dimensions (μm)	<b>Description</b> Infrared-selective photodiode with narrow response range (810 - 950 nm)  <b>Applications</b> Optical communications, safety equipment, light barriers
	typ. thickness 300 μm  anode gold alloy, 1.5 μm  cathode gold alloy, 0.5 μm	

### Miscellaneous Parameters

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

Parameter	Test conditions	Symbol	Value	Unit
Active area		A	0.72	mm <sup>2</sup>
Operating temperature range		$T_{amb}$	-40 to +125	°C
Storage temperature range		$T_{stg}$	-40 to +125	°C

### Optical and Electrical Characteristics

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Reverse voltage <sup>3</sup>	$I_R = 10 \mu\text{A}$	$V_R$	5			V
Dark current	$V_R = 1 \text{ V}$	$I_D$		1.0	2.5	nA
Peak sensitivity	$V_R = 0 \text{ V}$	$\lambda_P$		890		nm
Spectral range at 50 %	$V_R = 0 \text{ V}$	$\lambda_{0.5}$	820		935	nm
Responsivity at $\lambda_P$ <sup>1</sup>	$V_R = 0 \text{ V}$	$S_\lambda$	0.15	0.25		A/W
Responsivity at $\lambda_P$ <sup>2</sup>	$V_R = 0 \text{ V}$	$S_\lambda$		0.55		A/W
Spectral bandwidth at 50%	$V_R = 0 \text{ V}$	$\Delta\lambda_{0.5}$		115		nm

<sup>1</sup>Measured on bare covered chip on TO-18 header

<sup>2</sup>Measured on epoxy covered chip on TO-18 header

<sup>3</sup>information only

### Labeling

Type	Typ. $I_D$ [pA]	Typ. $S_\lambda$ [A/W]	Lot N°	Quantity
EPC-880-0.9-1				

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

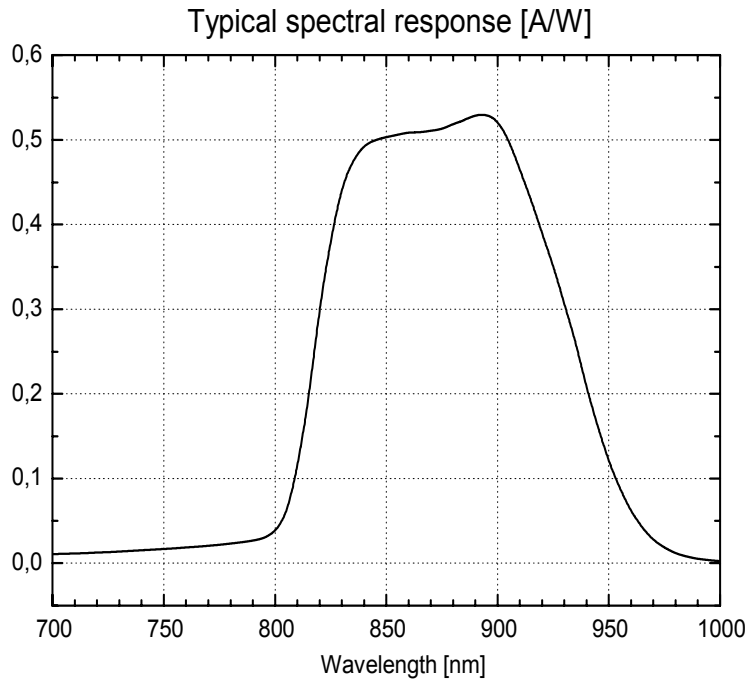
\*Note: All measurements carried out with *EPIGAP* equipment

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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