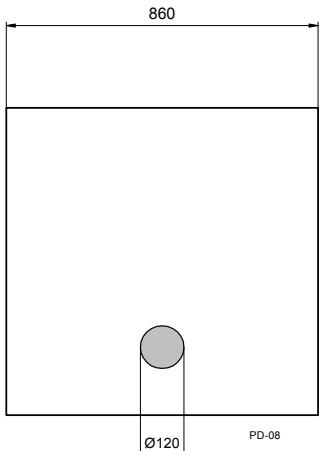


Wavelength range	Type	Technology	Electrodes
Infrared, selective	Integrated filter	GaAs	P (anode) up

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

Miscellaneous Parameters

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

Parameter	Test conditions	Symbol	Value	Unit
Active area		A	0.72	mm^2
Operating temperature range		T_{amb}	-40 to +125	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-40 to +125	$^{\circ}\text{C}$

Optical and Electrical Characteristics

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Reverse voltage ³	$I_{\text{R}} = 10 \mu\text{A}$	V_{R}	5			V
Dark current	$V_{\text{R}} = 1 \text{ V}$	I_{D}		1.0	2.5	nA
Peak sensitivity	$V_{\text{R}} = 0 \text{ V}$	λ_{P}		890		nm
Spectral range at 50 %	$V_{\text{R}} = 0 \text{ V}$	$\lambda_{0.5}$	820		935	nm
Responsivity at λ_{P} ¹	$V_{\text{R}} = 0 \text{ V}$	S_{λ}	0.15	0.25		A/W
Responsivity at λ_{P} ²	$V_{\text{R}} = 0 \text{ V}$	S_{λ}		0.55		A/W
Spectral bandwidth at 50%	$V_{\text{R}} = 0 \text{ V}$	$\Delta\lambda_{0.5}$		115		nm

¹Measured on bare covered chip on TO-18 header

²Measured on epoxy covered chip on TO-18 header

³information only

Labeling

Type	Typ. I_{D} [pA]	Typ. S_{λ} [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

