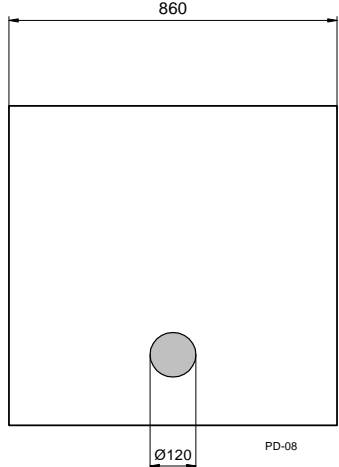


Wavelength range	Type	Technology	Electrodes
Red, selective	Integrated filter	AlGaAs/GaAs	P (anode) up

	typ. dimensions (µm)	Description red-selective photodiode with narrow response range (660 nm peak)
	typ. thickness 260 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	0.73	mm ²
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
Peak sensitivity	$V_R = 0\text{ V}$	λ_p		660		nm
Spectral range at 50%, lower limit	$V_R = 0\text{ V}$	$\lambda_{0.5}$	600	620	630	nm
Spectral range at 50 %, upper limit	$V_R = 0\text{ V}$	$\lambda_{0.5}$	690	700	720	nm
Responsivity at λ_p^1	$V_R = 0\text{ V}$	S_λ	0,25	0.3		A/W
Responsivity at λ_p^2	$V_R = 0\text{ V}$	S_λ		0.45		A/W
Spectral bandwidth at 50%	$V_R = 0\text{ V}$	$\Delta\lambda_{0.5}$		90		nm
Dark current	$V_R = 1\text{ V}$	I_D		40	300	pA
Junction capacitance	$V_R = 0\text{ V}$	C_J		160		pF
Switching time	$V_R = 1\text{ V}$	t_r, t_f		200		ns

¹Measured on bare covered chip on TO-18 header

²Measured on epoxy covered chip on TO-18 header

Labeling

Type	Typ. I_D [pA]	Typ. S_λ [A/W]	Lot N°	Quantity
EPC-660-0.9-1				

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

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

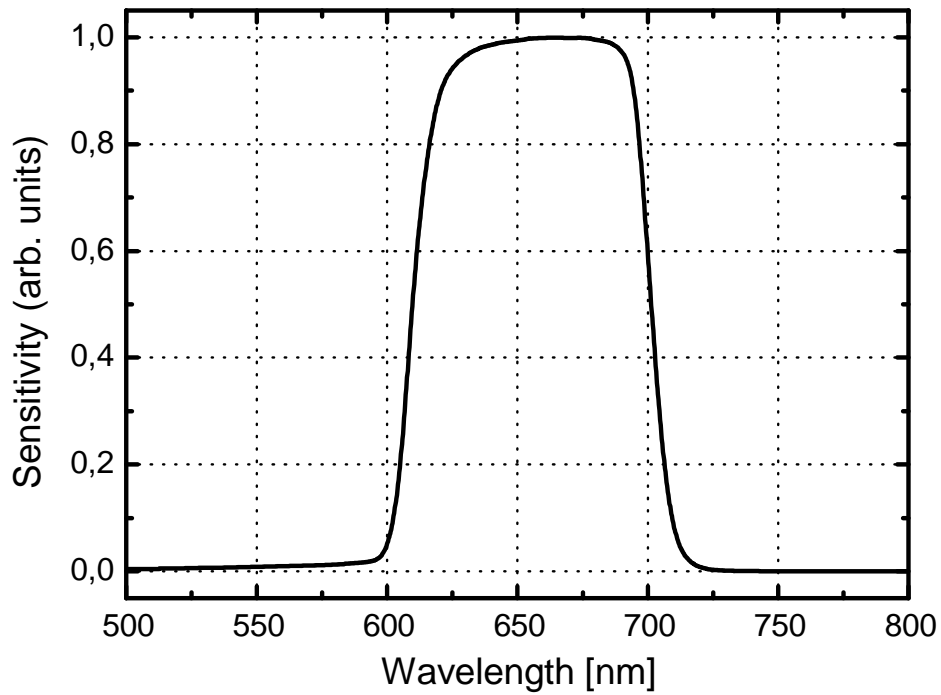
We reserve the right to make changes to improve technical design and may do so without further notice.

Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

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Typical responsivity spectrum



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