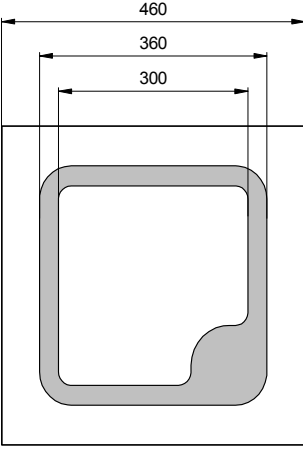


Wavelength range	Type	Technology	Electrodes
Blue, selective	Integrated filter	GaP	P (anode) up

	typ. dimensions (μm)	
	typ. thickness 300 (± 40) μm anode gold alloy, 1.5 μm cathode gold alloy, 0.5 μm	Description Narrow bandwidth and high spectral sensitivity in blue-green range (425...525 nm), low cost chip Applications Fluorescence detection, measurement systems, color sensors

Miscellaneous Parameters

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

Parameter	Test conditions	Symbol	Value	Unit
Active area		A	0.17	mm ²
Temperature coefficient of I_{Ph}	$T = -40 \dots 120^{\circ}\text{C}$	$T_C(I_{Ph})$	0.15	%/K
Temperature coefficient of I_D	$T = -40 \dots 120^{\circ}\text{C}$	$T_C(I_D)$	1.05	1/K
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

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Reverse voltage ³	$I_R = 10 \mu\text{A}$	V_R	5			V
Dark current ($E_e = 0 \text{ W/m}^2$)	$V_R = 5 \text{ V}$	I_D		5	30	pA
Central sensitivity wavelength	$V_R = 0 \text{ V}$	λ_C	460	470	480	nm
Responsivity at λ_C ¹	$V_R = 0 \text{ V}$	S_{λ}		0.18		A/W
Responsivity at λ_C ²	$V_R = 0 \text{ V}$	S_{λ}		0.30		A/W
Spectral range at 0.5 max.	$V_R = 0 \text{ V}$	$\lambda_{0.5}$	425		525	nm
Sensitivity range at 1%	$V_R = 0 \text{ V}$	$\lambda_{min}, \lambda_{max}$	380		570	nm
Spectral bandwidth at 50%	$V_R = 0 \text{ V}$	$\Delta\lambda_{0.5}$		100		nm

¹Measured on bare 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-470-0.5				

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

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

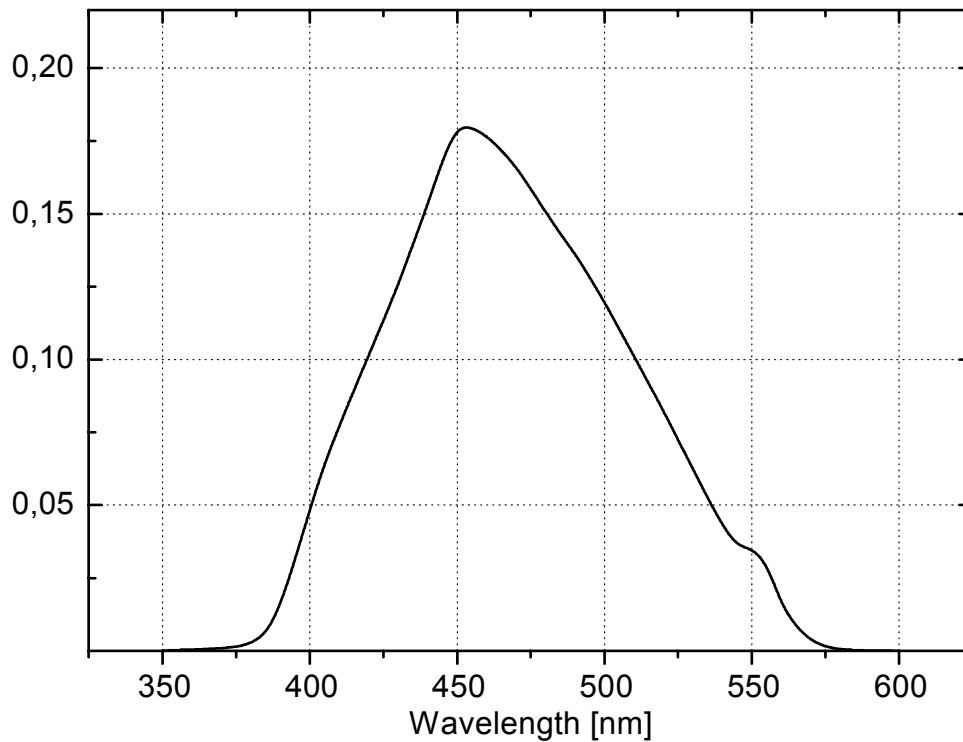
We reserve the right to make changes to improve technical design and may do so without further notice.

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

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Typical Optical Responsivity (A/W)



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