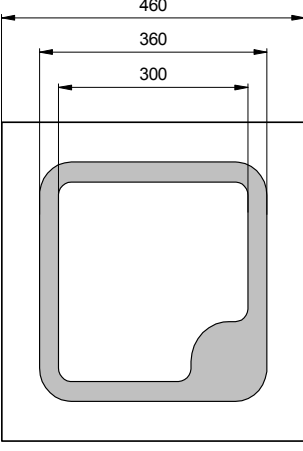


Wavelength range	Type	Technology	Electrodes
Blue, selective	Integrated filter	GaP	P (anode) up

	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

Typical Optical Responsivity (A/W)

