

Wavelength	Type	Technology	Case
UV	Schottky Contact	GaP	TO-39 + UG-11 filter

	<p>Description</p> <p>Wide bandwidth and high spectral sensitivity in the UV range (245 nm - 400 nm), mounted in hermetically sealed TO-39 package with UG11 UV filter-glass window</p> <p>Applications</p> <p>Medical engineering (dermatology), output check of UV - lamps and gas burner flame, measurement and control of ecological parameters, radiation control for a solarium, UV water purification facilities</p>
--	---

Miscellaneous Parameters

T_{amb} = 25°C, unless otherwise specified

Parameter	Test conditions	Symbol	Value	Unit
Active area		A	10.9	mm ²
Temperature coefficient of I _D		T _C (I _D)	7.0	%/K
Operating temperature range		T _{amb}	-40 to +125	°C
Storage temperature range		T _{stg}	-40 to +125	°C
Acceptance angle at 50% S _λ		φ	60	deg.

Optical and Electrical Characteristics

T_{amb} = 25°C, unless otherwise specified

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Breakdown voltage ¹⁾	I _R = 10 μA	V _R	5			V
Dark current	V _R = 5 V	I _D		20	80	pA
Peak sensitivity wavelength	V _R = 0 V	λ _p		365		nm
Responsivity at λ _p	V _R = 0 V	S _λ		0.07		A/W
Sensitivity range at 1%	V _R = 0 V	λ _{min} , λ _{max}	245		400	nm
Spectral bandwidth at 50%	V _R = 0 V	Δλ _{0.5}		85		nm
Shunt resistance	V _R = 10 mV	R _{SH}	50	70		GΩ
Noise equivalent power	λ = 365 nm	NEP		3.7x10 ⁻¹⁴		W/√Hz
Specific detectivity	λ = 365 nm	D*		9.0x10 ¹²		cm·√Hz·W ⁻¹
Junction capacitance	V _R = 0 V	C _J		2.6		nF
Switching time (R _L = 50 Ω)	V _R = 5 V	t _r , t _f		1/130		ns
Photo current at λ = 365 nm ^{1,2)}	V _R = 0 V E _e = 1 mW/cm ²	I _{Ph}		2.8		μA

¹⁾for information only

²⁾measured with common halogen lamp source and appropriate filter

Note: All measurements carried out with *EPIGAP* equipment

Labeling

Type	Lot N°	R _D (typ.) [GΩ]	Quantity
EPD-365-0-3.6			

Typical responsivity

