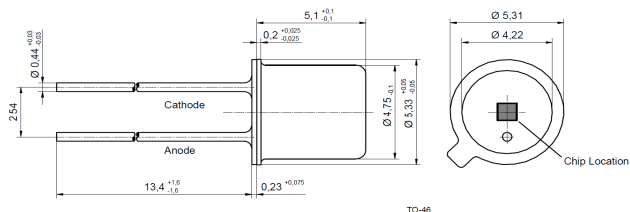


Radiation	Type	Case
Ultraviolet - visible	GaP Schottky	TO-46, UV glass

	Description:
	Wide bandwidth and high spectral sensitivity in the UV and visible range (190 nm - 570 nm), mounted in hermetically sealed TO-46 package with UV-glass window
	Applications
	Medical engineering (dermatology), output check of UV - lamps and gas burner flame, measurement and control of ecological parameters, radiation control for solarium, UV water purification facilities

Absolute Maximum Ratings (Ta = 25°C)

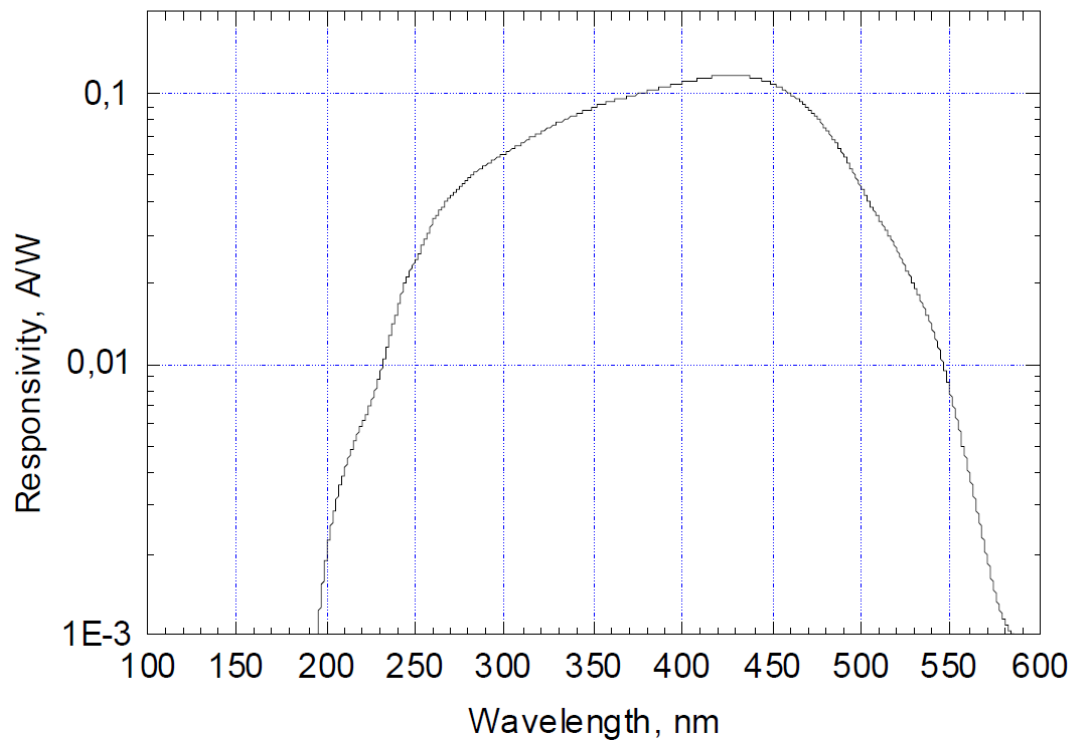
ITEMS	SYMBOL	RATINGS	UNIT
Active Area	A	1.2	mm ²
Temperature Coefficient of I _D	TC(I _D)	7	%K
Operating Temperature Range	T _{amb}	-40 to +125	°C
Storage Temperature Range	T _{stg}	-40 to +125	°C
Acceptance Angle at 50% of S _λ	φ	50	deg.

Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Breakdown Voltage 1*	V _r	I _r =10μA	5	--	--	V
Dark Current	I _d	V _r =5V	--	10	30	pA
Peak Sensitivity Wavelength	λ _p	V _r =0V	--	440	--	nm
Responsivity at λ _p	S _λ	V _r =0V	0.1	0.13	--	A/W
Sensitivity Range at 1% of S _λ	λ _{min} , λ _{max}	V _r =0V	190	--	570	nm
Spectral Bandwidth at 50% of S _λ	Δλ _{0.5}	V _r =0V	--	85	--	nm
Shunt Resistance	R _{sh}	V _r =10mV	150	200	--	GΩ
Noise Equivalent Power	NEP	λ=365 nm	--	1.1 x 10 ⁻¹⁴	--	W/√Hz
Specific Detectivity	D*	λ=365 nm	--	1.0 x 10 ¹²	--	cm · √Hz · W ⁻¹
Junction Capacitance	C _j	V _r =0V	--	300	--	pF
Switching Time (R _L =50Ω)	t _r , t _f	V _r =5V	--	1; 20	--	ns
Photocurrent at λ=440 nm	I _{ph}	V _r =0V E _e =1 mW/cm ²	--	1.55	--	μA

1* for information only 2* measured with filtered halogen lamp source

Typical responsivity



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.