GaP - UV-Photodiodes (245 - 400 nm) Schottky barrier type

Description

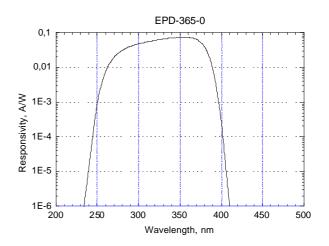
Wide bandwidth and high spectral sensitivity in the UV and visible range (245 nm - 400 nm), low cost chip based on GaP, large active areas are possible

Applications

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

Features

Mounted in hermetically sealed TO-packages with UV glass filter UG11 window, different active areas are available



Parameter	Units	Symbol	EPD-365- 0/0.9	EPD-365- 0/1.4	EPD-365- 0/2.5	EPD-365- 0/3.6
Chip sizes	mm		0.9 x 0.9	1.4 x 1.4	2.5 x 2.5	3.6 x 3.6
Active area	mm²	А	0.7	1.2	4.8	10.9
Max. dark current at $V_R = 0.01V$ $V_R = 1V$	pА	I _D	1 10	2 20	4 40	8 80
Package			TO-46	TO-46	TO-39	TO-39
Spectral range at 0,01 maximum	nm	λ_{min} - λ_{max}	245 – 400 (with UV-filter)			
Spectral bandwidth at 50%	nm	$\Delta\lambda_{0,5}$	85			
Peak sensitivity wavelength	nm	λ_{p}	365			
Typical responsivity at λ_p	A/W	S _ë	0.07			
Temperature coefficient of I _D	times/ K	TCI _D	1.07			
Typical rise and fall time at $V_R = 5V$ and 50Ω load	ns	t _r	0.7 13	0.8 30	1 140	1 140
Maximal reverse voltage at I _R =100 μA	V	V_R	10			
Operating temperature range	°C	T_{amb}	-40 to +125			
Storage temperature range	°C	T_{stg}	-40 to +125			