

## Description

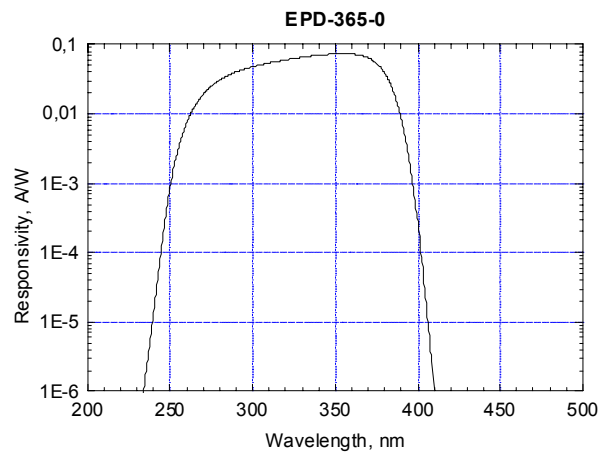
Wide bandwidth and high spectral sensitivity in the UV range (245 nm - 400 nm), low cost chip based on GaP, large active areas are possible

## 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	mm <sup>2</sup>	A	0.7	1.2	4.8	10.9
Max. dark current at $V_R = 0,01V$ $V_R = 1V$	pA	$I_D$	1 10	2 20	4 40	8 80
Package			TO-46	TO-46	TO-39	TO-39
Spectral range at 0,01 maximum	nm	$\lambda_{min}-\lambda_{max}$	245 – 400 (with UV-filter)			
Spectral bandwidth at 50%	nm	$\Delta\lambda_{0,5}$	85			
Peak sensitivity wavelength	nm	$\lambda_p$	365			
Typical responsivity at $\lambda_p$	mA/W	$S_\lambda$	70			
Temperature coefficient of $I_D$	times/ K	$TCl_D$	1.07			
Typical rise and fall time at $V_R = 5V$ and 50 $\Omega$ load	ns	$t_r$ $t_f$	0.7 13	0.8 30	1 140	1 140
Maximal reverse voltage at $I_R=100 \mu A$	V	$V_R$	10			
Operating temperature range	°C	$T_{amb}$	-40 to +125			
Storage temperature range	°C	$T_{stg}$	-40 to +125			