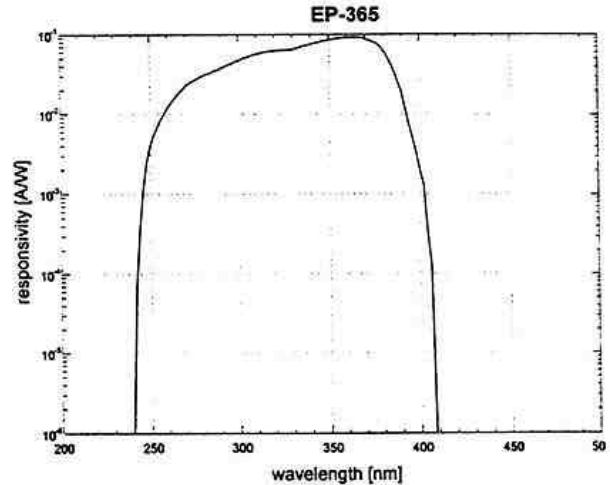
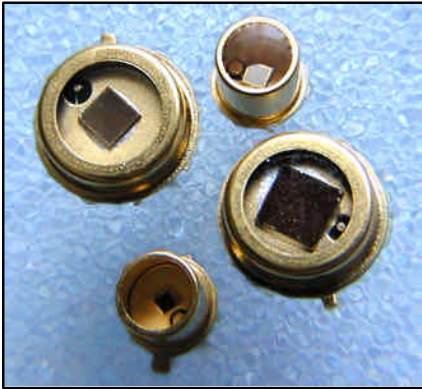


ROITHNER LASERTECHNIK

A-1040 WIEN, FLEISCHMANNGASSE 9
 TEL: +43 -1- 586 52 43 FAX: +43 -1- 586 41 43
 e-mail: rlt@mcb.at http://www.roithner.mcb.at

UV-Photodiodes 245 nm .. 405 nm



Description:

GaP-photodiode with wide bandwidth and high spectral sensitivity in the UV range of 245 nm – 405 nm.

Applications:

Medical engineering, power check of UV-lamps, flame control, solarium radiation control, UV water purification facilities,...

Features:

Suitable as SMT assembly or mounted in a hermetically sealed TO-package, different active areas available.

Technical Data:

Parameter	Units	Symbol	EP-365-1	EP-365-1,4	EP-365-2,5	EP-365-3,6
chip size	mm		1,0 x 1,0	1,4 x 1,4	2,5 x 2,5	3,6 x 3,6
eff. active area	mm ²	A	0,5	1,2	4,8	10,9
max. dark current at U = -0,01V U = -1 V	pA	I _D	1 10	2 20	4 40	8 80
package			TO-46, SMT	TO-46, SMT	TO-39, SMT	TO-39, SMT
spectral range at 0,01 maximum	nm	$\lambda_{\min}-\lambda_{\max}$	245 – 405			
FWHM	nm	$\Delta\lambda_{0,5}$	85			
peak sensitivity	nm	λ_P	365			
typ. responsivity @ λ_P	A/W	S	0,12			
temp. coeff. dark current	ΔI_D	I	7% / K			
rise and fall time	ns	t _r , t _f	U = -5 V, load = 50 Ω , 4.8 mm ² : t _r = 90, t _f = 140			
reverse voltage	V	V _r	-10 max.			