Schottky barrier type

Description

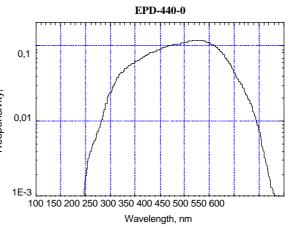
Wide bandwidth and high spectral sensitivity in the UV and visible range (190 nm - 570 nm), low cost chip based on GaP, large active areas are possible

Applications

Medical engineering (dermatology), output check of UV - lamps and gas burner flame, measure-ment and control of ecological parameters, ra-diation control for a solarium, UV water purificadiation control for a solarium, UV water purification facilities

Features

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



Parameter	Units	Symbol	EPD-440-	EPD-440-	EPD-440-	EPD-440-
			0/0.9	0/1.4	0/2.5	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?	А	0.7	1.2	4.8	10.9
Max. dark current at $V_R = 0.01V$ $V_R = 1V$	pА	lo	1 10	2 20	4 40	8 80
Package			TO-46	TO-46	TO-39	TO-39
Spectral range at 0,01 maximur	n nm	λmin - λmax	190 – 570 (with UV-glass)			
Spectral bandwidth at 50%	nm	$\lambda_{\scriptscriptstyle 0,5}$	180			
Peak sensitivity wavelength	nm	λρ	440			
Typical responsivity at $\lambda_{\scriptscriptstyle P}$	A/W	Së	0.12			
Temperature coefficient of I_{\circ}	times/K	TCI₀	1.07			
Typical rise and fall time at $V_{R} = -5V$ and 50 & load	ns	t, t,	0.7 13	0.8 30	1 140	1 140
Maximal reverse voltage at I₅=100 µA	V	V _R	10			
Operating temperature range	°C	Tamb	-40 to +125			
Storage temperature range	°C	T_{stg}	-40 to +125			