

Photodiode

EPD-440-0/0.9

Wavelength range	Type	Technology	Case
UV	UV - glass	GaP	TO 18/46

Description

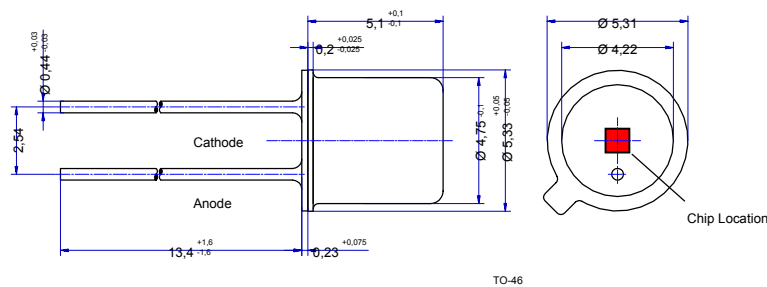
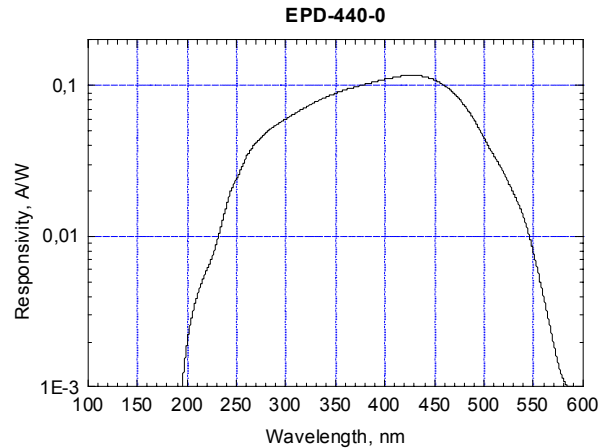
Wide bandwidth and high spectral sensitivity in the UV and visible range (190 nm - 570 nm), low cost chip based on GaP, large active areas are possible

Applications

Medical engineering (dermatology), output check of UV - lamps and gas burner flame, measurement and control of ecological parameters, radiation control for a solarium, UV water purification facilities

Features

Mounted in hermetically sealed TO-46 package with UV glass window



Parameter	Test conditions	Symbol	Typ. Value	Units
Chip sizes			0.9 x 0.9	mm
Active area		A	0.7	mm ²
Max. dark current	V _R = 0.01 V V _R = 1 V	I _D	1 10	pA
Spectral range at 0.01 maximum		λ _{min} -λ _{max}	190 – 570	nm
Spectral bandwidth at 50%		Δλ _{0,5}	180	nm
Peak sensitivity wavelength		λ _p	440	nm
Typical responsivity at λ _p		S _λ	0.17	A/W
Temperature coefficient of I _D		TCl _D	1.07	times/K
Typical rise and fall time	V _R = 5 V R _L = 50 Ω	t _r t _f	0.7 13	ns
Maximal reverse voltage	I _R = 100 μA	V _R	10	V
Operating temperature range		T _{amb}	-40 to +125	°C
Storage temperature range		T _{stg}	-40 to +125	°C