

GaP – Visible Range Selective Photodiode

Diffusion type (Preliminary data)

EPD-470-1/0.9

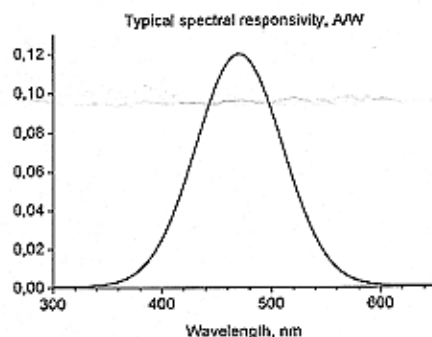
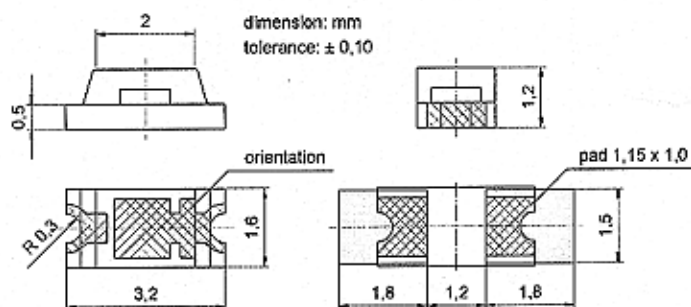
Wavelength range	Type	Technology	Case
Bluish-green	EPD-470-1/0.9	GaP	SMD 1206

Description

Narrow bandwidth and high spectral sensitivity in the bluish-green visible range (380...556 nm), low cost chip based on GaP

Applications

Alarm systems, light barriers, special sensors for automotive industry



Parameter	Symbol	Value	Unit
Chip sizes		0.86 x 0.86	mm
Active area	A	0.6	mm ²
Maximal dark current at V _R = 5V	I _D	20	pA
Spectral range at 0,5 maximum 0,1 maximum	$\lambda_{\min}-\lambda_{\max}$	420...520 380...556	nm
Spectral bandwidth at 50%	$\Delta\lambda_{0.5}$	100	nm
Peak sensitivity wavelength	λ_p	470	nm
Typical responsivity at λ_p	S _A	0.12	A/W
Temperature coefficient of I _D	TCI _D	1.07	times/K
Maximal reverse voltage at I _R =100 μA	V _R	10	V
Operating temperature range	T _{amb}	-25 to +100	°C
Storage temperature range	T _{stg}	-25 to +100	°C