

# Photodiode

# EPD-525-1-0.9

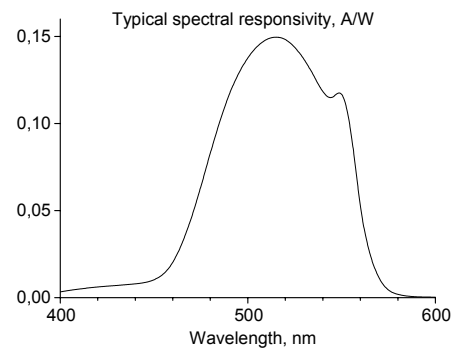
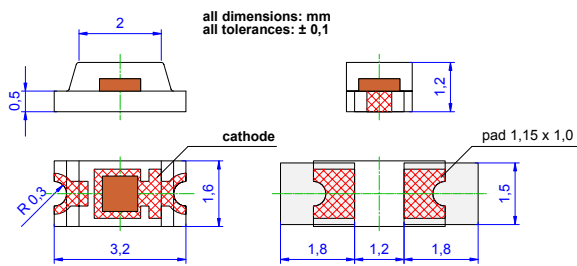
Wavelength range	Type	Technology	Case
Green	selective	GaP	SMD 1206

## Description

Narrow bandwidth and high spectral sensitivity in the green-red visible range (450...570 nm), low cost chip based on GaP

## Applications

Alarm systems, light barriers, special sensors for automotive industry, For nearly  $V_{\lambda}$  matched detectors



Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Active area		A		0.62		mm <sup>2</sup>
Spectral range at 0,5 max.	$V_R = 0 \text{ V}$	$\lambda_{0,5}$	480		560	nm
Responsivity at $\lambda_p$	$V_R = 0 \text{ V}$	$S_{\lambda}$	0,15	0.30		A/W
Spectral bandwidth at 50%	$V_R = 0 \text{ V}$	$\Delta\lambda_{0,5}$		70		nm
Dark current	$V_R = 5 \text{ V}, E_e=0$	$I_D$		5	30	pA
Peak sensitivity wavelength	$V_R = 0$	$\lambda_p$	515	525	535	nm
Temperature coefficient of $I_D$		$TCI_D$		7		%/K
Reverse voltage	$I_R = 10 \mu\text{A}$	$V_R$	5			V