

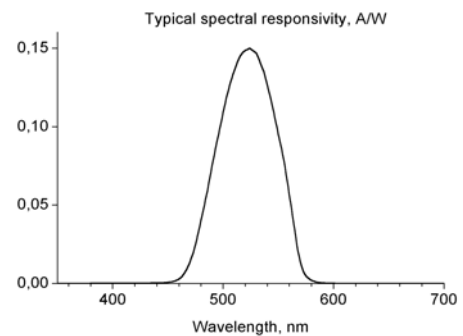
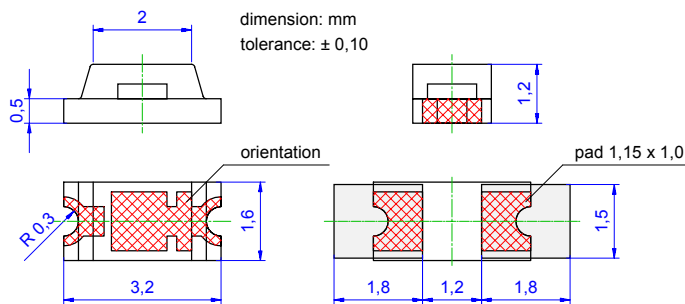
Wavelength range	Type	Technology	Case
green	Diffusion	GaP	SMD 1206

## Description

Narrow bandwidth and high spectral sensitivity in the bluish-green visible range (470...570 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 <sup>2</sup>
Maximal dark current at $V_R = 5V$	$I_D$	20	pA
Spectral range at 0,5 maximum at 0,1 maximum	$\lambda_{min}-\lambda_{max}$	490...560 470...570	nm
Spectral bandwidth at 50%	$\Delta\lambda_{0,5}$	70	nm
Peak sensitivity wavelength	$\lambda_p$	520	nm
Typical responsivity at $\lambda_p$	$S_\lambda$	0.15	A/W
Temperature coefficient of $I_D$	$TCl_D$	1.07	times/K
Maximal reverse voltage at $I_R=100 \mu A$	$V_R$	10	V
Operating temperature range	$T_{amb}$	-25 to +100	°C
Storage temperature range	$T_{stg}$	-25 to +100	°C