

Preliminary

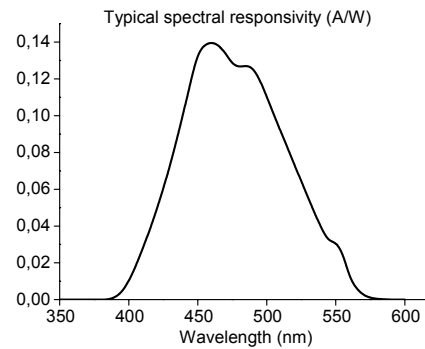
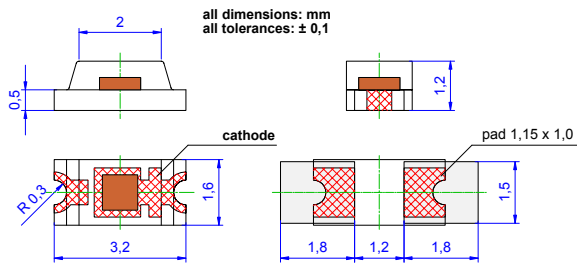
Wavelength range	Type	Technology	Case
Bluish-green	selective	GaP	SMD 1206

Description

Narrow bandwidth and high spectral sensitivity in the bluish-green visible range (380...555 nm), low cost chip based on GaP

Applications

Alarm systems, light barriers, special sensors for automotive industry



Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Active area		A		0.62		mm ²
Spectral range at 0,1 max.	$V_R = 0 \text{ V}$	$\lambda_{0,5}$	380		555	nm
Responsivity at λ_p	$V_R = 0 \text{ V}$	S_λ	0,15	0.30		A/W
Spectral bandwidth at 50%	$V_R = 0 \text{ V}$	$\Delta\lambda_{0,5}$		100		nm
Dark current	$V_R = 5 \text{ V}, E_e=0$	I_D		5	30	pA
Peak sensitivity wavelength	$V_R = 0$	λ_p	450	470	490	nm
Temperature coefficient of I_D		TCI_D		7		%/K
Reverse voltage	$I_R = 10 \text{ }\mu\text{A}$	V_R	5			V