

GaP – Visible Range Selective Photodiode

Diffusion type (Preliminary data)

EPD-520-1/0.9

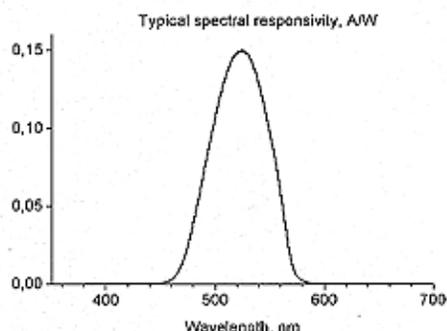
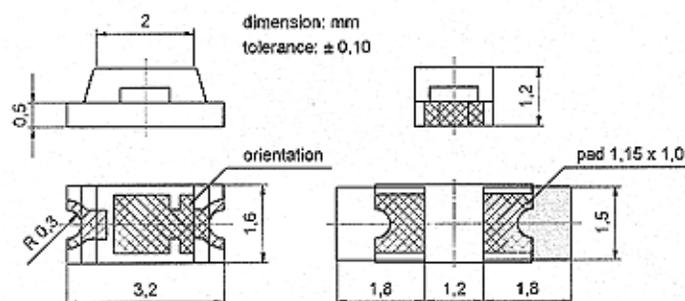
Wavelength range	Type	Technology	Case
Bluish-green	EPD-520-1/0.9	GaP	SMD 1206

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 ²
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	λ_p	520	nm
Typical responsivity at λ_p	S_λ	0.15	A/W
Temperature coefficient of I_D	TCI_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_{sig}	-25 to +100	°C