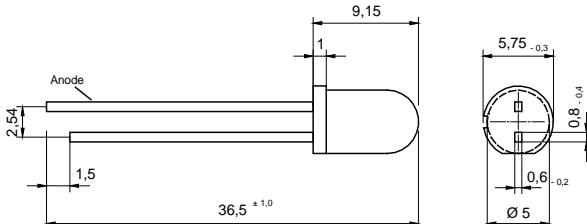


Wavelength	Type	Technology	Case
Blue-Green	water clear	GaP	5 mm plastic lens

		Description
		Selective photodiode mounted in standard 5 mm package with standoff. Narrow bandwidth and high spectral sensitivity in the range of max. eye responsivity (480...560 nm). Note: Special packages without standoff available on request
Applications		light barriers, automation, optical analytics

**Miscellaneous Parameters** $T_{amb} = 25^\circ\text{C}$ , unless otherwise specified

Parameter	Test conditions	Symbol	Value	Unit
Active area		A	0.62	$\text{mm}^2$
Temperature coefficient of $I_D$		$T_C(I_D)$	5	%/K
Operating temperature range		$T_{amb}$	-20 to +85	°C
Storage temperature range		$T_{stg}$	-30 to +100	°C
Soldering Temperature	$t \leq 3 \text{ s}, 3 \text{ mm from case}$	$T_{sld}$	260	°C
Acceptance angle at 50% $S_\lambda$		$\varphi$	20	deg.

**Optical and Electrical Characteristics** $T_{amb} = 25^\circ\text{C}$ , unless otherwise specified

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Breakdown voltage <sup>1)</sup>	$I_R = 10 \mu\text{A}$	$V_R$	5			V
Dark current	$V_R = 5 \text{ V}$	$I_D$		5	30	pA
Peak sensitivity wavelength	$V_R = 0 \text{ V}$	$\lambda_p$		525		nm
Responsivity at $\lambda_p$	$V_R = 0 \text{ V}$	$S_\lambda$		0.3		A/W
Sensitivity range at 1% <sup>1)</sup>	$V_R = 0 \text{ V}$	$\lambda_{min}, \lambda_{max}$	410		580	nm
Spectral bandwidth at 50%	$V_R = 0 \text{ V}$	$\Delta\lambda_{0.5}$		70		nm
Shunt resistance	$V_R = 10 \text{ mV}$	$R_{SH}$		300		GΩ
Noise equivalent power	$\lambda = 525 \text{ nm}$	NEP		$4.3 \times 10^{-15}$		$\text{W}/\sqrt{\text{Hz}}$
Specific detectivity	$\lambda = 525 \text{ nm}$	$D^*$		$1.8 \times 10^{13}$		$\text{cm} \cdot \sqrt{\text{Hz}} \cdot \text{W}^{-1}$
Junction capacitance	$V_R = 0 \text{ V}$	$C_J$		100		pF
Switching time ( $R_L = 50 \Omega$ )	$V_R = 1 \text{ V}$	$t_r, t_f$		35		ns
Photocurrent at illuminant A <sup>1,2)</sup>	$V_R = 0 \text{ V}$ $E_v = 1000 \text{ lx}$	$I_{Ph}$		270		nA

<sup>1)</sup>for information only<sup>2)</sup>Standard light source with a color temperature of 2856 K

Note: All measurements carried out with EP/GAP equipment

**Labeling**

Type	Lot N°	$R_D$ (typ.) [GΩ]	Quantity
EPD-525-5-0.9			

