

Wavelength	Type	Technology	Case
Blue-Green	water clear	GaP	3 mm plastic lens

Description

Selective photodiode mounted in standard 3 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°C, unless otherwise specified

Parameter	Test conditions	Symbol	Value	Unit
Active area		A	0.62	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}	-40 to +125	°C
Soldering Temperature	t ≤ 3 s, 3 mm from case	T _{slid}	260	°C
Acceptance angle at 50% S _λ		φ	60	deg.

Optical and Electrical Characteristics

T_{amb} = 25°C, unless otherwise specified

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Breakdown voltage ¹⁾	I _R = 10 μA	V _R	5			V
Dark current	V _R = 5 V	I _D		5	30	pA
Peak sensitivity wavelength	V _R = 0 V	λ _p		525		nm
Responsivity at λ _p	V _R = 0 V	S _λ		0.3		A/W
Sensitivity range at 1% ¹⁾	V _R = 0 V	λ _{min} , λ _{max}	410		580	nm
Spectral bandwidth at 50%	V _R = 0 V	Δλ _{0.5}		70		nm
Shunt resistance	V _R = 10 mV	R _{SH}		300		GΩ
Noise equivalent power	λ = 525 nm	NEP		4.3x10 ⁻¹⁵		W/√Hz
Specific detectivity	λ = 525 nm	D*		1.8x10 ¹³		cm · √Hz · W ⁻¹
Junction capacitance	V _R = 0 V	C _J		100		pF
Switching time (R _L = 50 Ω)	V _R = 1 V	t _r , t _f		35		ns
Photocurrent at illuminant A ^{1,2)}	V _R = 0 V Ev = 1000 lx	I _{Ph}		175		nA

¹⁾for information only

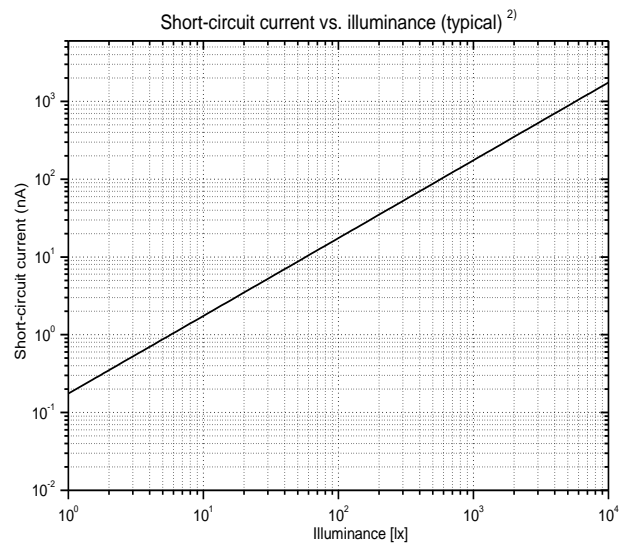
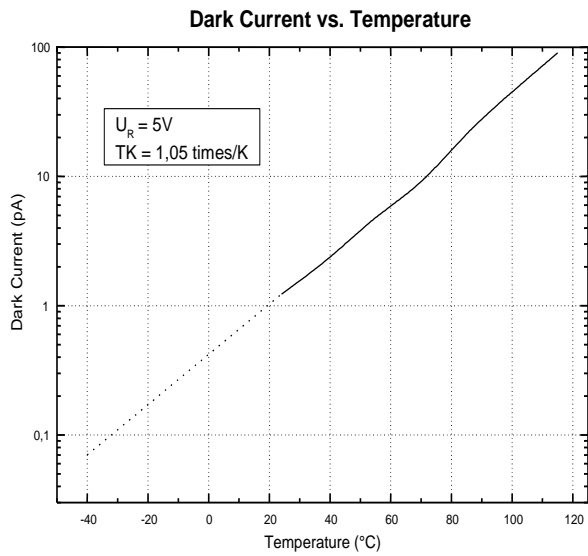
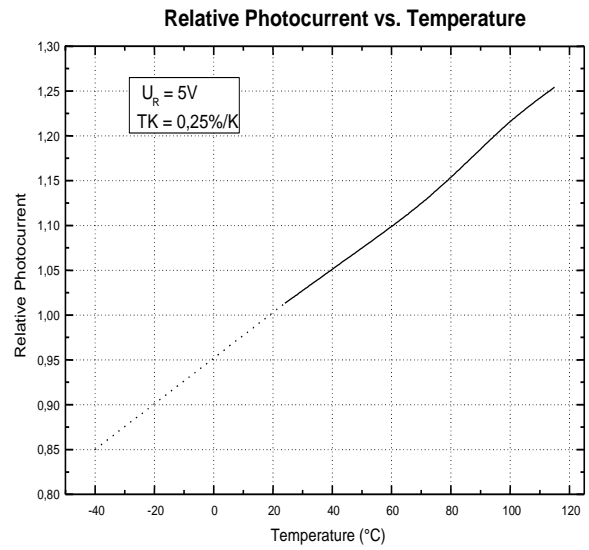
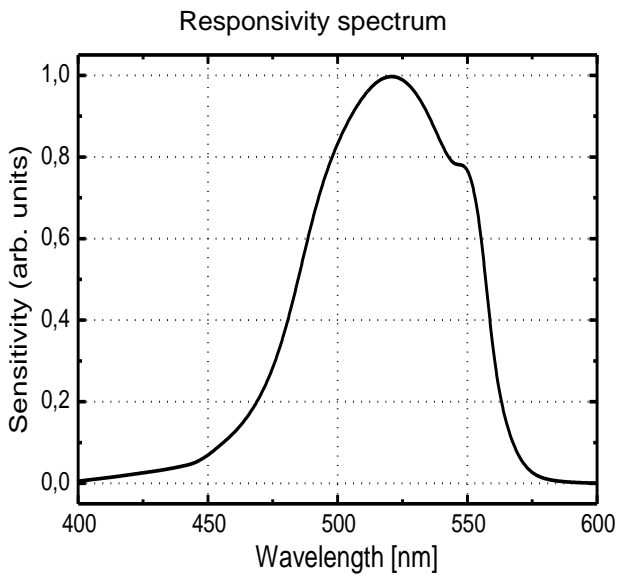
²⁾ Standard light source with a color temperature of 2856 K

Note: All measurements carried out with JENOPTIK Polymer Systems equipment

Labeling

Type	Lot N°	R _D (typ.) [GΩ]	Quantity
EPD-525-3-0.9			

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