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Data Sheet

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Selective photodiode

EOPD-525-1-0.9

Rev. 02, 2017

Wavelength range	Type	Case
green	GaP	SMD 3216

Description:	
<p>Unit: mm Tolerance: $\pm 0,1$</p> <p>Back side</p> <p>Marking</p> <p>All sizes in mm</p>	
Applications:	
<p>Alarm systems, light barriers, daylight sensors, for nearly Vλ matched detectors.</p>	

Maximum Ratings

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

Parameter	Symbol	Value	Unit
Active area	A	0.73	mm ²
Temperature coefficient of I _D	TC(I _D)	5	%/K
Temperature coefficient of I _{PH}	TC(I _{PH})	0.25	%/K
Temperature coefficient of λ_C	TC(λ_C)	0.15	nm/K
Operating temperature range	T _{amb}	-20 to +85	°C
Storage temperature range	T _{stg}	-40 to +100	°C



We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

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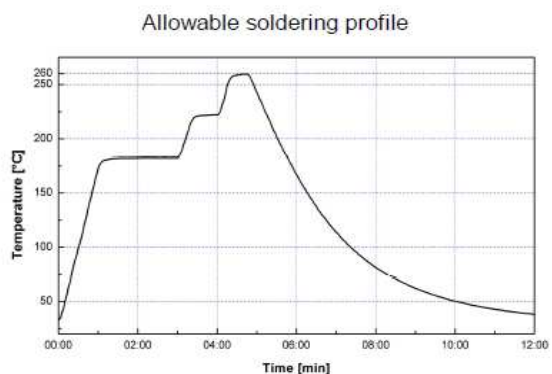
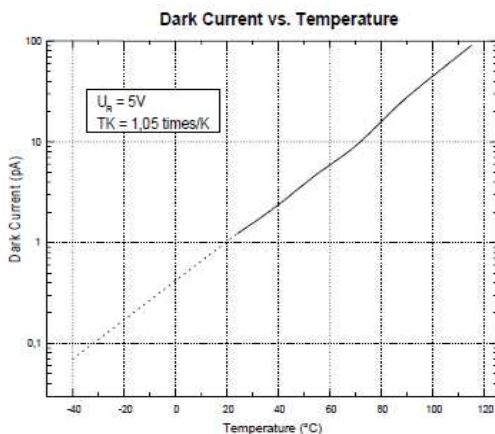
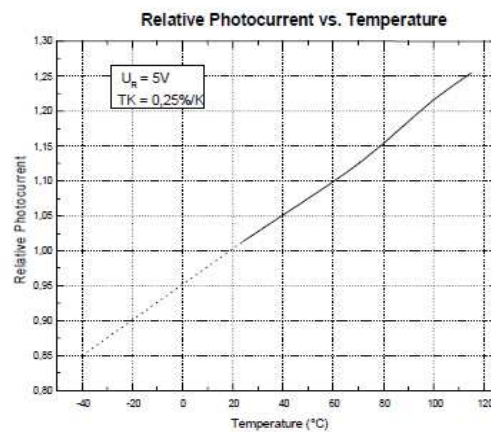
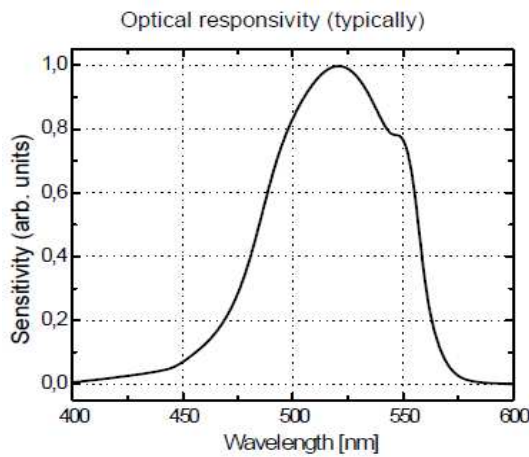
Selective photodiode

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Optical and Electrical Characteristics

T_{amb}= 23°C, unless otherwise specified

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
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%	V _R =0 V	λ _{min} , λ _{max}	410		580	nm
Spectral bandwidth at 50%	V _R =0 V	Δλ _{0,5}		70		nm
Junction capacitance	V _R =0 V	C _J		100		pF
Switching times (R _L =50 Ω)	V _R =1 V	t _r ; t _f		35		ns



Art. No. 142 013



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