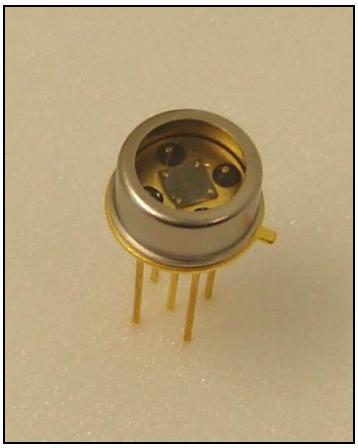
SiC-quadrant-photodiode JQA5

preliminary data sheet



characteristics :

- monolithic SiC-quadrant-photodiode with common cathode
- active area: 4 x 1,25 mm²
- spectral range: 215 … 360 nm
- high UV responsivity: 0,16 A/W
- hermetically sealed TO39-package
- component is ROHS, REACH and WEEE conform

applications :

- center detection of laser beams
- high resolution autocollimators
- xy – coordinate measuring machines
- fibre optical acceleration- and angle sensors
- application with need of high position resolution

maximum ratings :

- reverse voltage 20 V
- operating temperature range - 40 °C ... 100 °C
- storage temperature range - 40 °C ... 100 °C
- soldering temperature (3s) 260 °C

technical data :

parameter		test condition	min.	typ.	max.	unit
active area				1,25		mm²
diameter of active area				2,525		mm
separation gap				32		µm
maximum of spectral responsivity S_{max} at				270		nm
spectral range	λ_{max} λ_{min}	$S = 0{,}1 \cdot S_{max}$		215 360		nm
absolute spectral responsivity		λ = 254 nm		0,14		A/W
dark current I_R		E = 0 lx		100		fA
risetime t_r of photo current		R_L = 50 Ω λ = 254 nm I_P = 10 µA		tbc		ns
capacitance		F = 1 MHz E = 0 lx		250		pF

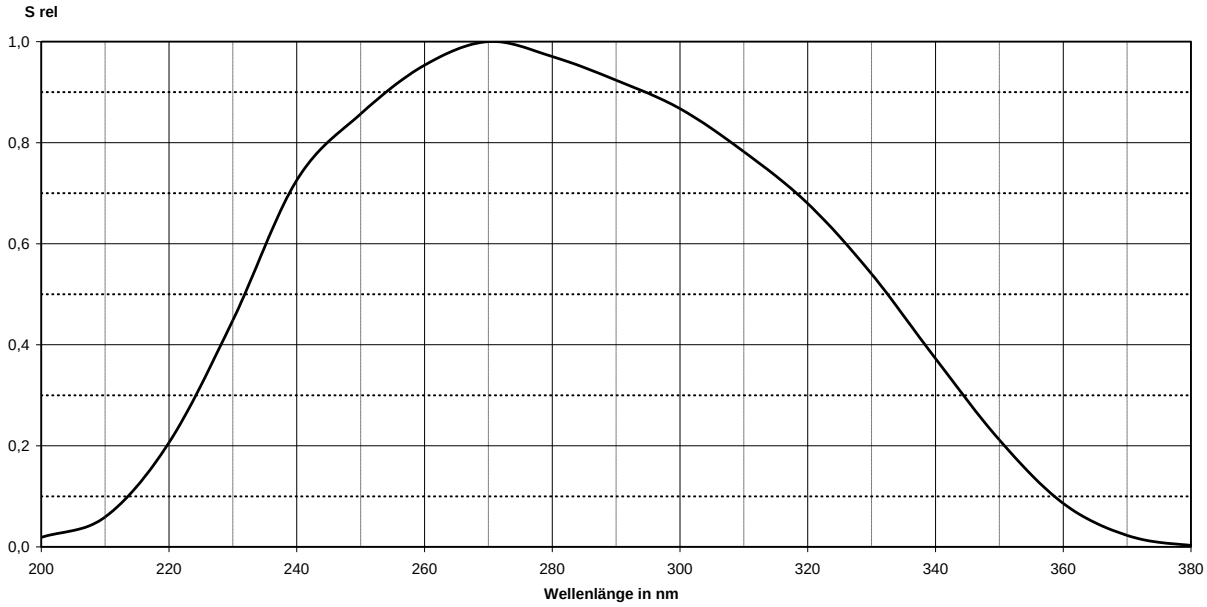
test conditions, as not otherwise specified: T_A = 25 °C , V_R = 10 V
values are valid for one quadrant, as not otherwise specified !

ifw optronics GmbH
Otto-Schott-Str. 13
D-07745 Jena

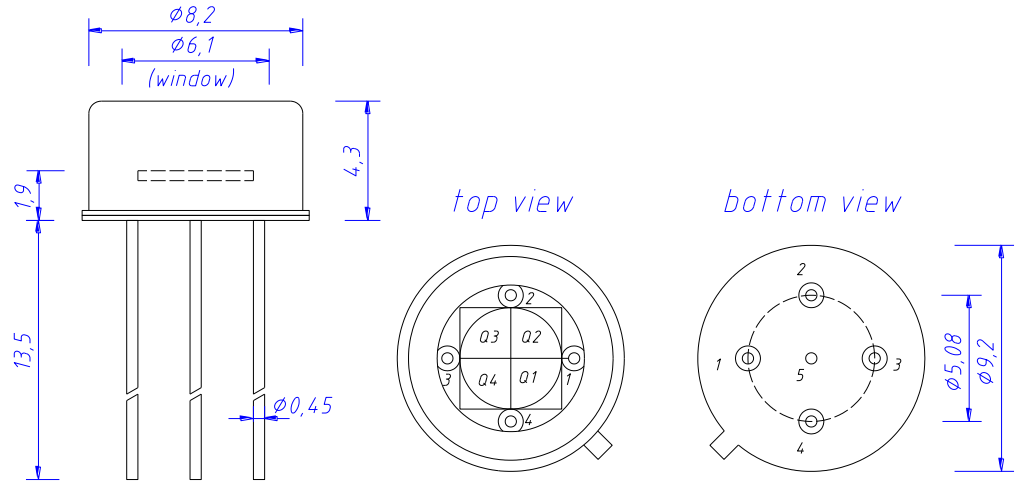
www.ifw-optronics.com
info@ifw-optronics.com

Tel.:+49 (3641) 204-117
Fax:+49 (3641) 204-110

relative spectral responsivity



package dimension



pin configuration

1	anode quadrant 1
2	anode quadrant 2
3	anode quadrant 3
4	anode quadrant 4
5	catode & case

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