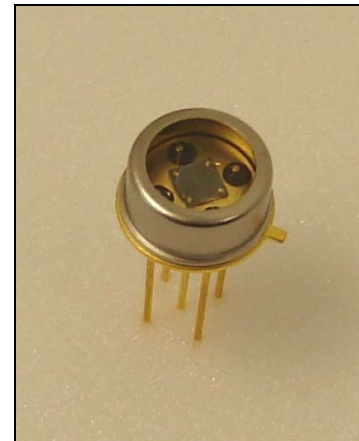


	<b>SiC-quadrant-photodiode</b> <b>JQC5R</b>
---	--

preliminary data sheet

**characteristics :**

- ◆ monolithic SiC-quadrant-photodiode with common cathode
- ◆ active area: 4 x 1,25 mm<sup>2</sup>
- ◆ spectral range: 215 ... 360 nm
- ◆ high UV responsivity: 0,16 A/W
- ◆ hermetically sealed TO39-package
- ◆ component is ROHS and WEE 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

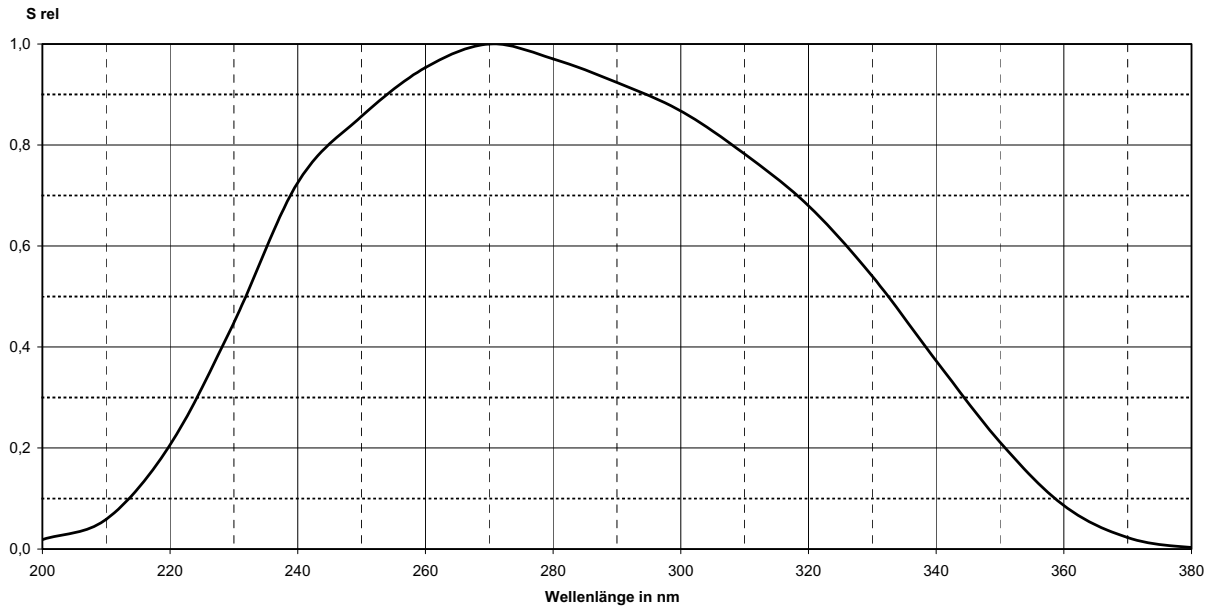
**technical data :**

test conditions, as not otherwise specified: T<sub>A</sub> = 25 °C , V<sub>R</sub> = 10 V  
 values are valid for one quadrant, as not otherwise specified !

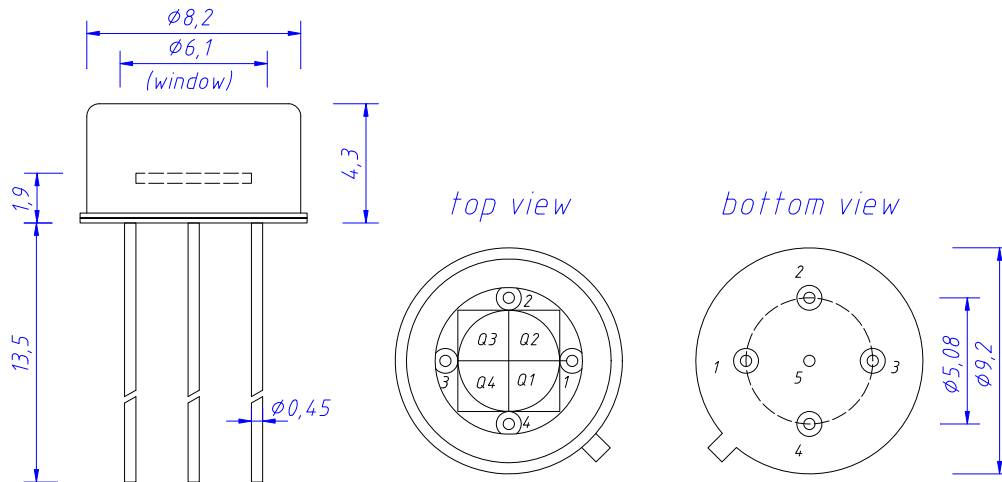
parameter	test condition	min.	typ.	max.	unit
active area			1,25		mm <sup>2</sup>
diameter of active area			2,525		mm
separation gap			32		µm
maximum of spectral responsivity S <sub>max</sub> at			270		nm
spectral range	S = 0,1 x S <sub>max</sub>				
λ <sub>min</sub>			215		nm
λ <sub>max</sub>			360		
absolute spectral responsivity	λ = 254 nm		0,14		A/W
dark current I <sub>R</sub>	E = 0 lx		100		fA
risetime t <sub>r</sub> of photo current	R <sub>L</sub> = 50 Ω λ = 254 nm I <sub>P</sub> = 10 µA		tbc		ns
capacitance	F = 1 MHz E = 0 lx		250		pF

# SiC-quadrant-photodiode JQC5R

## 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

rev 1 (10/2010)