



Quadrant - Photodiode JQ 5P


characteristics :

- ◆ Si-PIN-photodiode
- ◆ spectral range 400 - 1100 nm
- ◆ active area 4 x 1,25 mm²
- ◆ hermetic sealed TO-5 package

application :

- ◆ position sensing of laser beams
- ◆ autokollimators
- ◆ xy - coordinate measurement
- ◆ position sensing applications

absolute maximum ratings:

reverse voltage	20	V
operating temperature	- 25 °C ... 80	°C
storage temperature	- 40 °C ... 100	°C
welding temperature (3s)	260	°C

technical data :

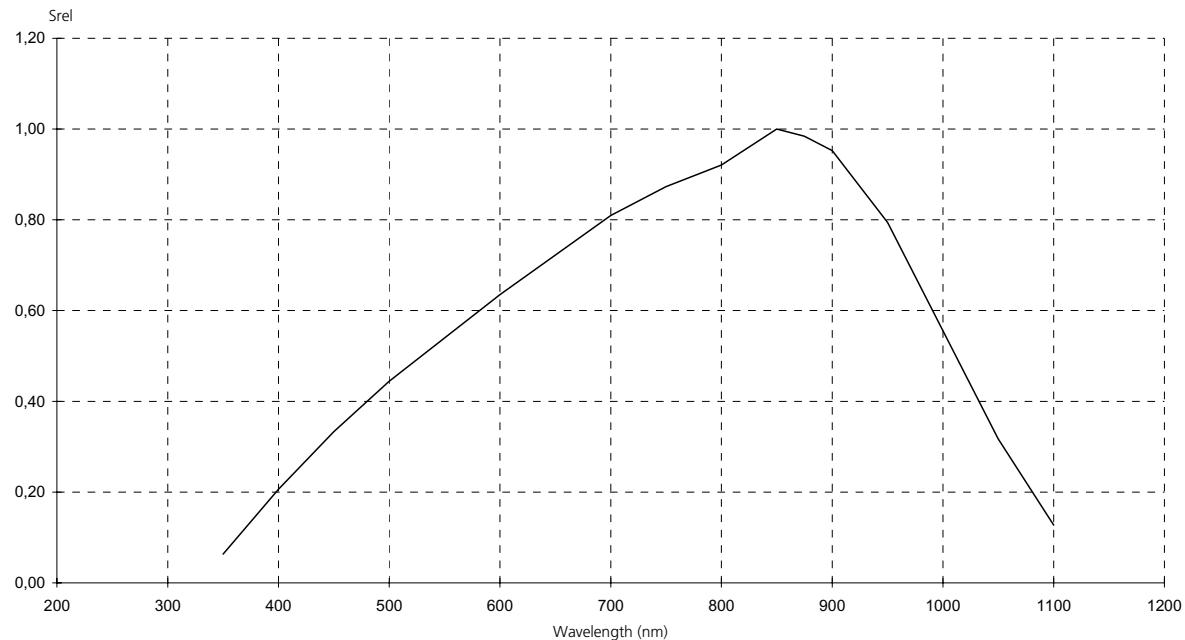
Common test conditions, as not otherwise specified: $v_a = 25 \text{ }^{\circ}\text{C}$ $v_R = 20 \text{ V}$

Parameters are valid for one single element, as not otherwise specified!

parameter	test condition	min	typ.	max	unit
active area			1,25		mm ²
diameter of active area			2,523		mm
separation gap between elements			24		μm
maximum of spectral responsivity S_{max} bei			850		nm
spectral range λ_{max} λ_{min}	$S = 0,1 \times S_{\text{max}}$		400 1100		nm
absolute spectral responsivity	$\lambda = 633 \text{ nm}$ $\lambda = 850 \text{ nm}$		0,42 0,6		A/W
dark current I_R	$E = 0 \text{ lx}$		0,5	10	nA
risetime t_r of photocurrent	$R_L = 50 \Omega$ $\lambda = 850 \text{ nm}$ $I_p = 10 \mu\text{A}$		25		ns
capacitance	$F = 1 \text{ MHz}$ $E = 0 \text{ lx}$		15		pF

D
A
T
A

S
H
E
E
T

relative spectral responsivity**pin configuration**

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

package dimension