



Quadrant - Photodiode JQ 50P



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- characteristics :**
- ◆ Si-PIN-photodiode
 - ◆ spectral range 400 - 1100 nm
 - ◆ active area 4 x 12,5 mm²
 - ◆ hermetic sealed TO-8 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

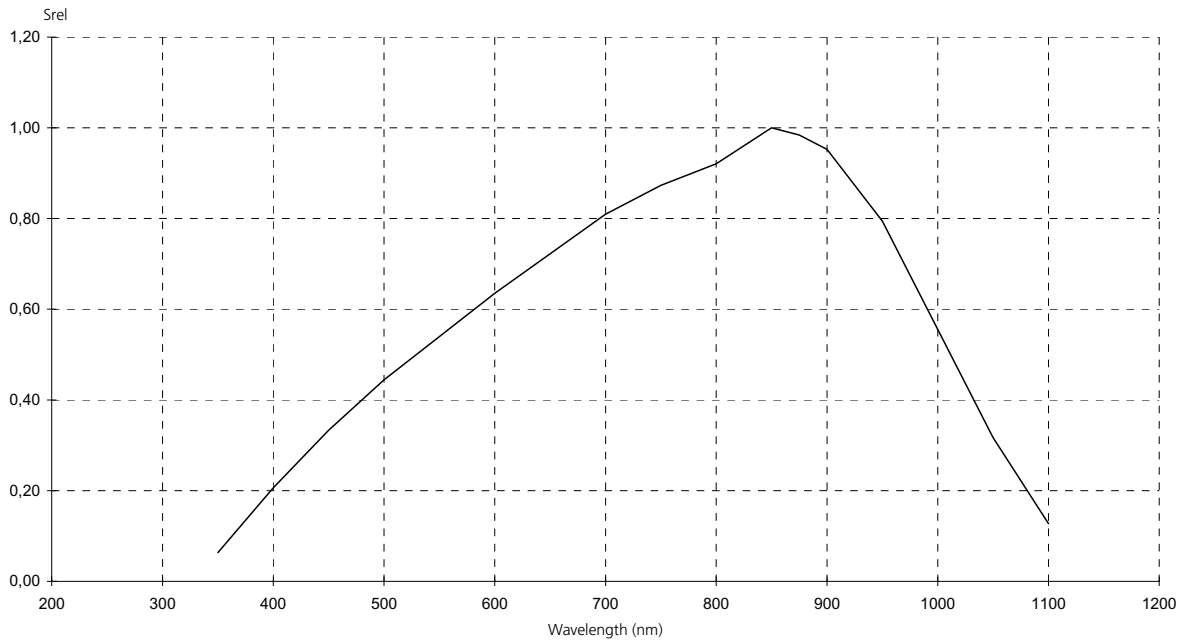
technical data :

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

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

parameter	test condition	min	typ.	max	unit
active area			12,5		mm ²
diameter of active area			7,89		mm
separation gap between elements			50		µm
maximum of spectral responsivity S_{max} bei			850		nm
spectral range λ_{max} λ_{min}	$S = 0,1 \times S_{max}$		400 1100		nm
absolute spectral responsivity	$\lambda = 850\text{ nm}$		0,6		A/W
dark current I_R	$E = 0\text{ lx}$		2	10	nA
risetime t_r of photocurrent	$R_L = 50\ \Omega$ $\lambda = 850\text{ nm}$ $I_p = 10\ \mu\text{A}$		0,4		µs
capacitance	$F = 1\text{ MHz}$ $E = 0\text{ lx}$		20		pF

relative spectral responsivity



pin configuration

1, 3, 4, 6 anode quadrant 1 - 4
2 catode & case

package dimension

