

Features

- Schottky-type photodiode
- Intrinsic visible blindness due to wide-bandgap semiconductor material
- Built-in filter glass for low sensitivity above 400nm
- Large photoactive area
- No focusing lens needed, therefore large usable incident angle
- Designed to operate in photovoltaic mode
- TO-39 metal package

Maximum Ratings

Parameter	Symbol	Value	Unit
Operating temperature range	T_{opt}	-20 ... +80	°C
Reverse voltage	V_{Rmax}	3	V
Forward current	I_{Fmax}	5	mA
Total power dissipation at 25°C	P_{tot}	5	mW

TW30DY2

General Characteristics

(T_a = 25 °C)

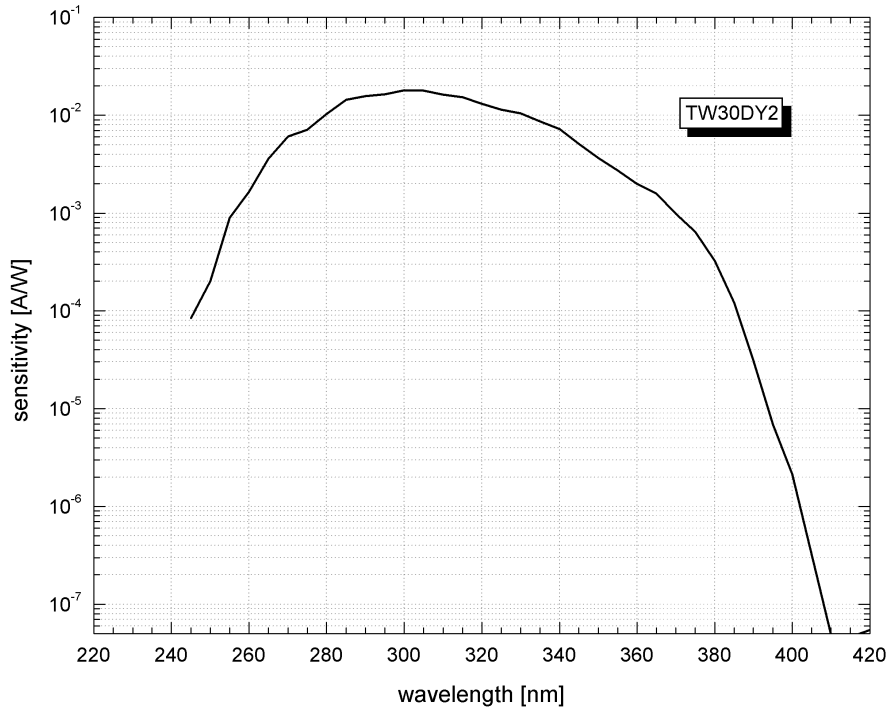
Parameter	Symbol	typ. Value	Unit
Active area	A	15.66	mm ²
Active area dimensions	L x W	5.4 x 2.9	mm ²
Max. viewing angle	α	app. 60	degree
Shunt resistance (dark)	R _s	10	MΩ
Dark current at 10mV reverse bias	I _d	100	pA
Open circuit voltage (200μW/cm ² , λ=300nm)	V ₀	120	mV
Short circuit current (200μW/cm ² , λ=300nm)	I ₀	560	nA
Breakdown voltage (dark)	V _{BR}	> 3	V

Spectral Characteristics

(T_a = 25 °C)

Parameter	Symbol	typ. Value	Unit
Max. spectral sensitivity	S _{max}	18	mA W ⁻¹
Wavelength of max. spectral sensitivity	λ _{Smax}	300	nm
Range of spectral sensitivity (S=0.1*S _{max})	-	260-362	nm
Visible blindness	$\frac{S_{max}}{S_{400nm}}$	10.000	

Spectral Response



Pin Layout

