

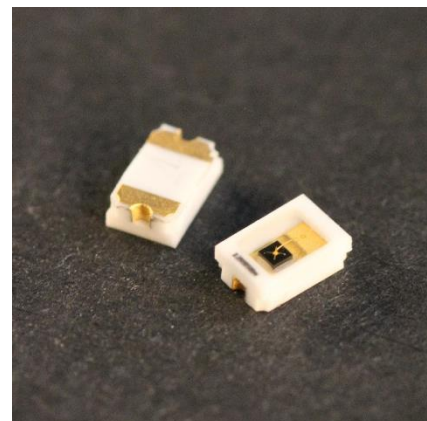
preliminary data sheet

characteristic :

- ◆ active area: 0,25 mm²
- ◆ spectral range: 205 ... 355 nm
- ◆ high UV-responsivity: 0,18 A/W
- ◆ ceramic SMD housing
- ◆ RoHS, REACH and WEEE conform

applications :

- ◆ optical measurements in UV-range
- ◆ control of sterilization lamps
- ◆ flame control


absolute maximum ratings :

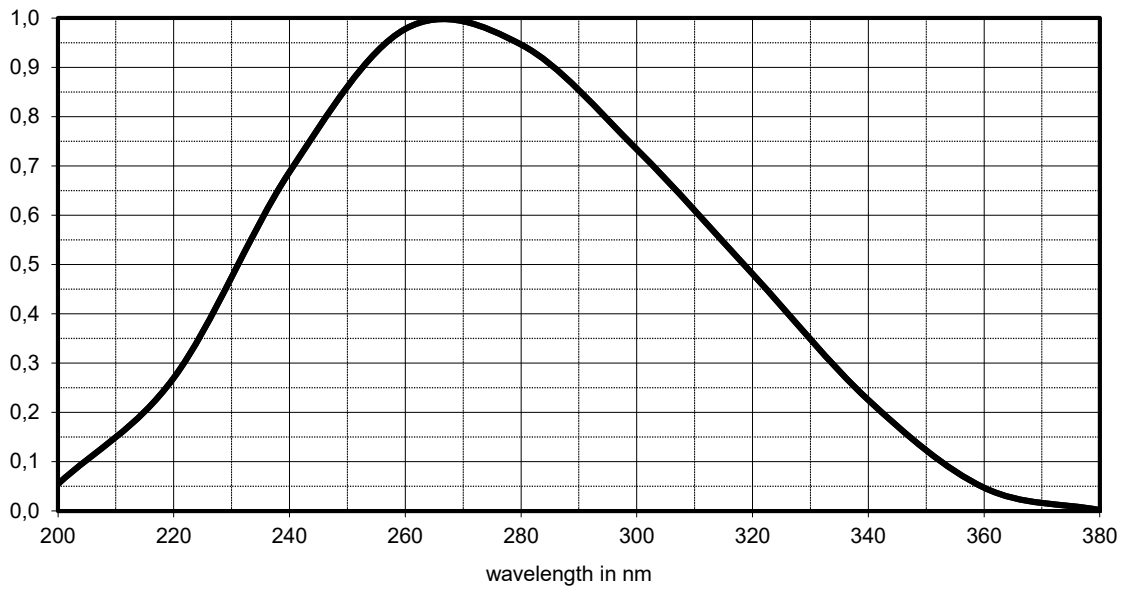
- ◆ reverse voltage 10 V
- ◆ operating temperature range - 40 °C ... 125 °C
- ◆ storage temperature range - 40 °C ... 125 °C
- ◆ soldering temperature (3s) 260 °C

technical data :

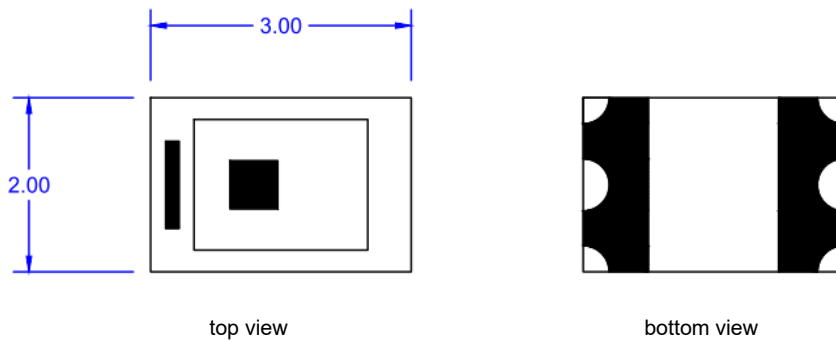
test conditions, as not otherwise specified: T_A = 25 °C , V_R = 0 V

Parameter	Mess- bedingungen	Messwerte	Einheit
active area		0,55x0,55	mm ²
spectral range			
λ _{min}	S = 0,1 x S _{max}	210	nm
λ _{max}		355	nm
wavelength of peak response		265	nm
peak response S _{max}	λ = 265 nm	0,18	A/W
spectral response S _{254nm}	λ = 254 nm	0,16	A/W
dark current I _R	V _R = 1 V	10	fA
junction capacitance C	f = 10 kHz	75	pF
field of view (FOV)		±70°	Grad
weight		0,03	Gramm

relativ spectral responsivity

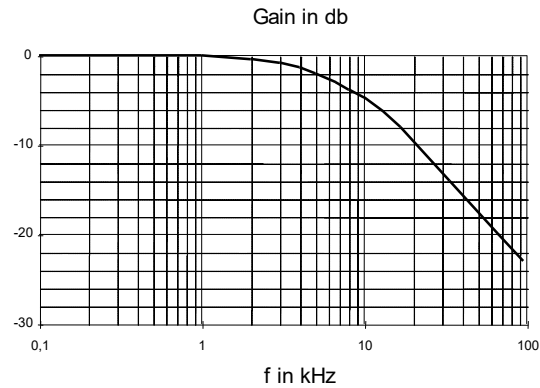
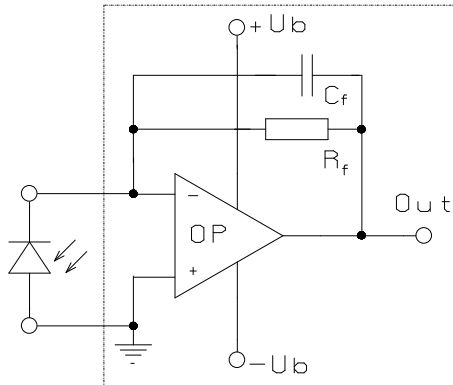


package dimensions SMD ceramic (in mm)



marking: Cathode
height: 1,0 mm

application example



The application example shows a typical circuit. R_f is responsible for the gain of the circuit. C_f compensates the reverse junction capacitance of the photodiode and the input capacitance of the OP-amp. The exact value of C_f depends on R_f , used OP-amp and capacitance of the circuit. A typical value is 1pF.

The chart shows dependence of amplitude of the application circuit with OP-amp = AD795, $R_f = 10 \text{ M}\Omega$ and $C_f = 1\text{pF}$.