



Electro Optical Components, Inc.

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GaP-Photodiode

JEP1 · JEP1-365 · JEP5 · JEP5-365

Characteristics :

- ♦ GaP photodiode with optional integrated short-pass-filter
- ♦ for UV-range or UV+blue-range
- ♦ active area: 1,2 mm² and 5 mm²

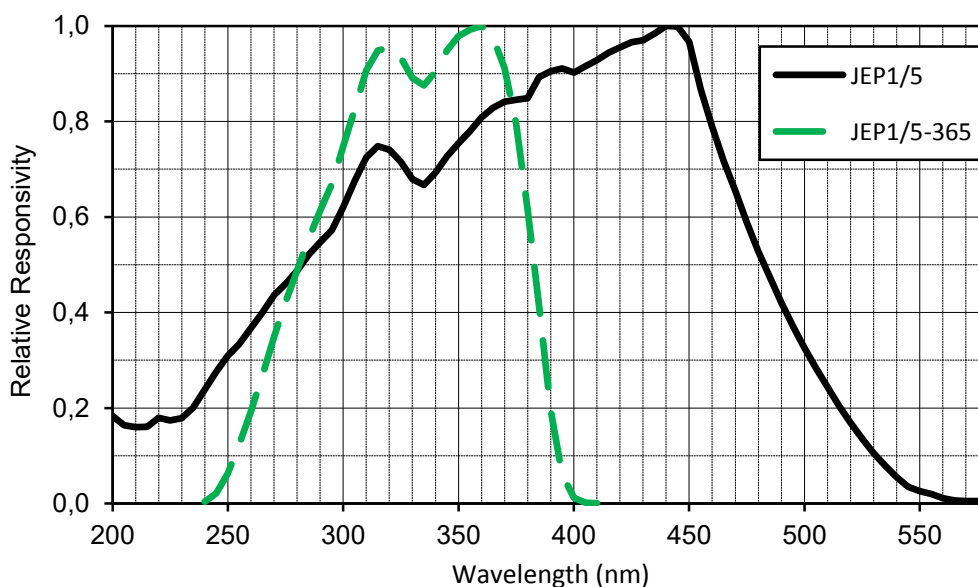
Application:

- ♦ general UV measurements
- ♦ flame control

Absolute Maximum Ratings :

- ♦ reverse voltage 5 V
- ♦ operating temperature range - 25 °C ... 125 °C
- ♦ storage temperature range - 25 °C ... 125 °C
- ♦ soldering temperature (3s) 260 °C

Relative Spectral Responsivity:

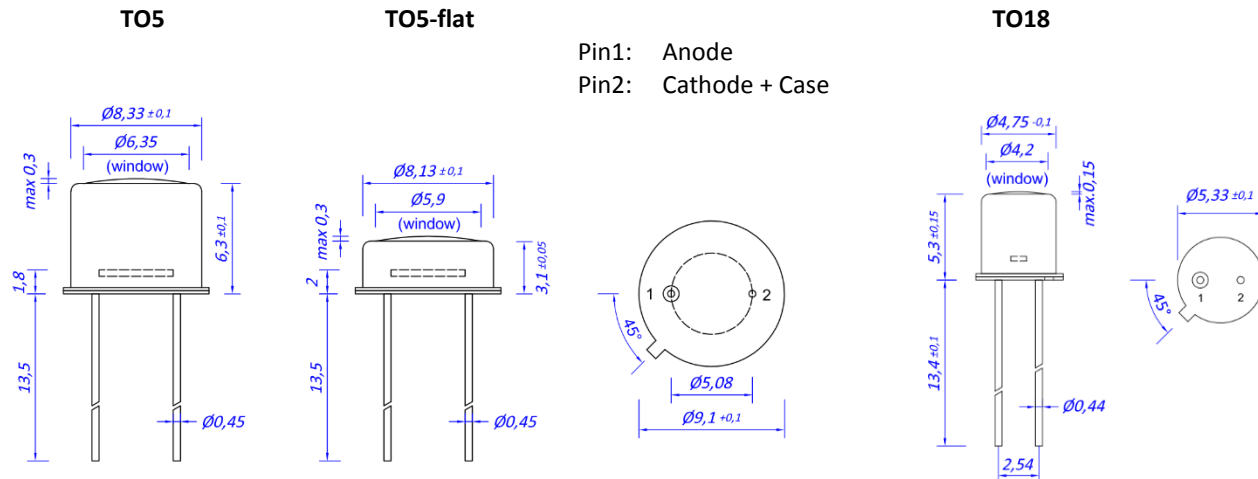


Technical Data :

Parameter	Test-conditions	JEP1	JEP5	JEP1-365	JEP5-365	Unit
Active area		1,2	5	1,2	5	mm ²
Spectral range $\lambda_{\max}$ $\lambda_{\min}$	$S = 0,1 \times S_{\max}$	230 530		250 400		nm nm
Peak sensitivity wavelength $\lambda_{\max}$		440		365		nm
Maximum responsivity $S_{\max}$	$\lambda = \lambda_{\max}$	130		75		mA/W
Dark Current I_D (max)	$V_R = 5 \text{ V}$	10 (30)	15 (50)	10 (30)	15 (50)	pA
Junction Capacitance C_j	$f = 10 \text{ kHz}$	300	1000	300	1000	pF
Rise time Fall time	$R_L = 1 \text{ kOhm}$ $\lambda = 365 \text{ nm}$	2 5	5 5	2 5	5 5	μs
Package type/drawing		TO18	TO5-flat	TO18	TO5	
Package height						

Measuring conditions, if not specified otherwise: $T_A = 25 \text{ }^\circ\text{C}$, $V_R = 0 \text{ V}$; typical values

Case Dimensions:



Application Example:

