

APPLICATIONS:

Alpha-particle spectrometry
Radon detection and monitoring
Nuclear physics experiments
Spectrometric and counting systems



Table 1 - ABSOLUTE MAXIMUM RATINGS

Parameter	Rating
Maximum reverse voltage	100 V

Table 2 - SPECIFICATIONS

Parameter	Value	Unit
Active area	500	mm ²
Leakage current density (V _R = 60 V, T = 20 °C)	2 - 4	nA/cm ²
Capacitance per unit area (V _R = 60 V, T = 20 °C)	50 - 100	pF/cm ²
Operating reverse voltage	1 - 60	V
Energy resolution at 5.48 MeV (²⁴¹ Am)	~1	%

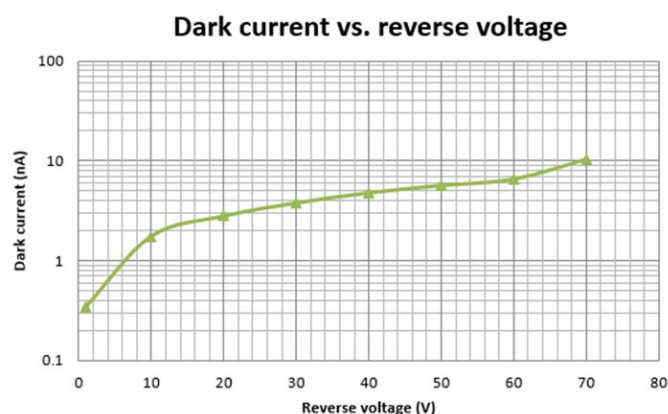


Fig. 1. Leakage current vs. reverse voltage.

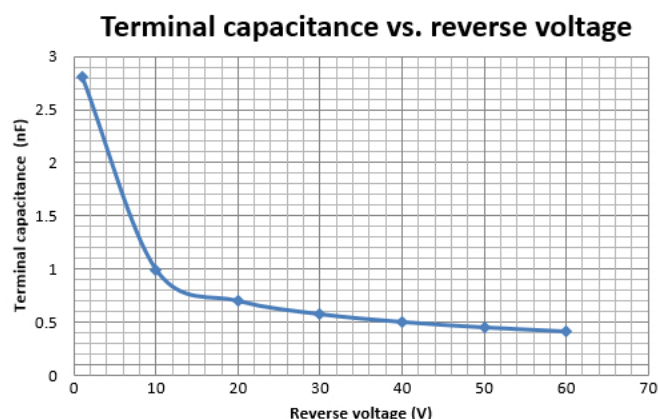


Fig. 2. Terminal capacitance vs. reverse voltage.

CAUTION: DO NOT TOUCH THE DETECTOR ACTIVE AREA.



ESD CAUTION

This detector may be damaged by electrostatic discharge (ESD). Handle the detector only at an ESD-protected workstation and observe appropriate ESD precautions.

MECHANICAL DIMENSIONS AND PIN CONFIGURATION

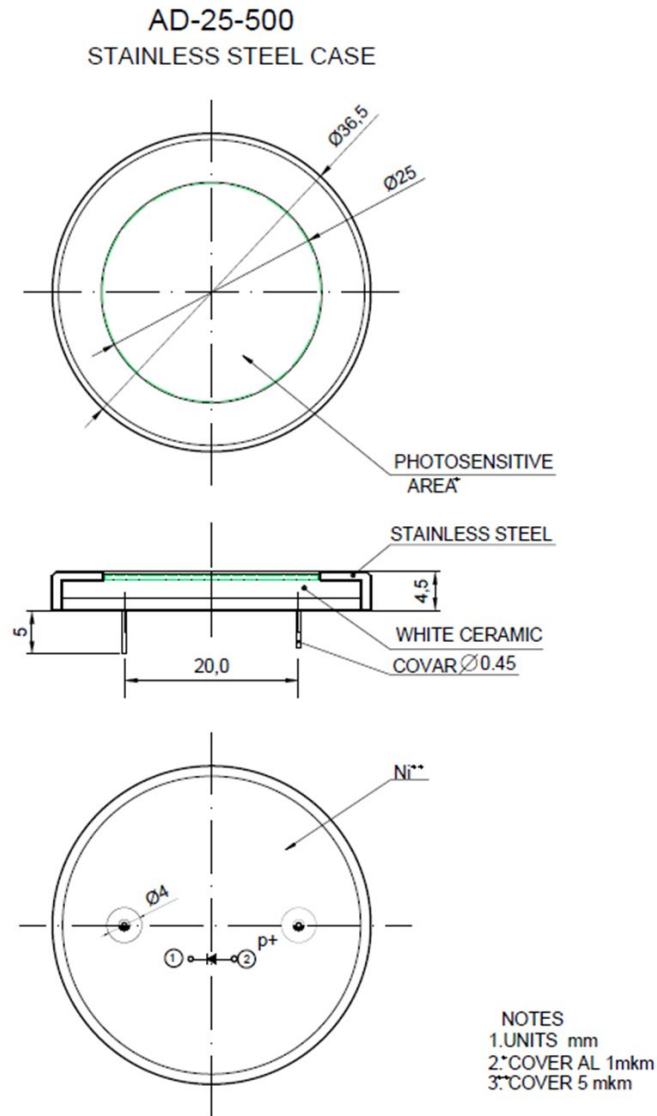


Fig. 3. Package outline and pin configuration.

Manufacturer: AlexDetector
Website: <https://shmytov.com>

PURCHASE AND USE CONDITIONS FOR OEM PRODUCTS

OEM products are not intended for use by end users. They are supplied exclusively to developers and manufacturers of electronic equipment for integration into their own products. The manufacturer cannot verify the customer's storage, handling, or operating conditions; compliance with the Absolute Maximum Ratings, Specifications, and other requirements stated in the product documentation; or the customer's technical qualifications. By purchasing this product, the customer acknowledges that it is not eligible for return or replacement. Each production batch undergoes quality control before shipment.