

FEATURES:

- High stability
- Low cost
- Easy integration and operation

APPLICATIONS:

- Medical instrumentation
- Personal dosimeters
- Portable radiation detection instruments
- Radiation monitoring systems



DSG2500-25 / DSG3000-25

Table 1 - ABSOLUTE MAXIMUM RATINGS

Parameter	Maximum rating
Photodiode bias voltage, VBIAS	50 V

Table 2 - SPECIFICATIONS FOR DSG2500-25 AND DSG3000-25

Parameter	DSG2500-25	DSG3000-25
Energy resolution at 662 keV (^{137}Cs), R, %	6.5	
Energy resolution at 59.5 keV (^{241}Am), R, %	33	
Radiation tolerance, rad	10^4	
Scintillator material	CsI(Tl)	
Scintillator dimensions (L $\times$ W $\times$ H), mm	25 $\times$ 10 $\times$ 10	30 $\times$ 10 $\times$ 10
Silicon PIN photodiode active area, mm ²	25	
Photodiode capacitance at VBIAS = 30 V, pF	33	
Photodiode dark current at VBIAS = 30 V and T = 20 °C, nA	0.37	
Overall dimensions (L $\times$ W $\times$ H), mm	30 $\times$ 15 $\times$ 15	35 $\times$ 15 $\times$ 15
Ambient-light shielding ⁽¹⁾	None	

(1) Note: The detector is not light-tight and must be operated in a light-tight enclosure.

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 intended exclusively for developers and manufacturers of electronic equipment. The manufacturer cannot verify the conditions under which the product is used or stored, the customer's compliance with the Absolute Maximum Ratings, Specifications, and other requirements stated in the product documentation, or the adequacy of the customer's technical expertise. By purchasing this product, the customer acknowledges that the product is not eligible for return or replacement. The manufacturer performs quality-control inspection of the entire production batch before shipment to the customer.