N.D. Il'inskaya, S.A. Karandashev, A.A. Lavrov, B.A. Matveev, M.A. Remennyi, N.M. Stus', A.A. Usikova,

"P-InAsSbP/p- InAs $_{0.88}$ Sb $_{0.12}$ /n- InAs $_{0.88}$ Sb $_{0.12}$ /n + -InAs PDs with a smooth p-n junction" Infrared Physics & Technology 88, 223-227 (2018), doi: <u>https://doi.org/10.1016/j.infrared.2017.11.003</u>

Annotation

Current-voltage, capacitance-voltage, and photoelectrical characteristics of $InAs_{0.88}Sb_{0.12}$ photodiodes grown onto InAs substrates with a smooth p-n junction and various mesa diameters and layer thicknesses sensitive to radiation with wavelengths up 5.5 µm were investigated and analyzed. Conclusions on the impact of the $InAs_{0.88}Sb_{0.12}$ -layer thickness on the main performance parameters (zero bias resistance, sensitivity, and spectral response) are presented and discussed.