Abstracts

Optical-Microwave Effects in IMPATT Diode Oscillators

H.P. Vyas, R.J. Gutmann and J.M. Borrego. "Optical-Microwave Effects in IMPATT Diode Oscillators." 1979 MTT-S International Microwave Symposium Digest 79.1 (1979 [MWSYM]): 188-190.

Significant difference in optical-microwave interactions, in Si IMPATT oscillators, due to electron and hole initiated avalanches have been demonstrated using ring device structures and modified disc and post type waveguide cavity. A large signal model accounting for this difference gives a good agreement with the experimental results.

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