

Abstracts

Symmetry Experiments with Four-Mesa IMPATT Diodes (Letters)

C.T. Rucker, G.N. Hill, N.W. Cox and J.W. Amoss. "Symmetry Experiments with Four-Mesa IMPATT Diodes (Letters)." 1977 Transactions on Microwave Theory and Techniques 25.1 (Jan. 1977 [T-MTT]): 75-76.

Experiments with four-mesa silicon p+-n-n+ IMPATT diodes have shown power saturation and reduced efficiency when connected and packaged in electrically asymmetrical configurations. The need for electrical symmetry is illustrated by experiments wherein seemingly trivial asymmetries caused severe saturation of the power output.

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