Abstracts

Accurate Small-Signal Modelling of a Double Barrier Resonant Tunnelling Diode (DBRTD)

C.V. Sammut, N.J. Cronin, R.D. Schnell and H. Tews. "Accurate Small-Signal Modelling of a Double Barrier Resonant Tunnelling Diode (DBRTD)." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 1041-1044.

Reflection measurements between 45 MHz and 13 GHz on a DBRTD have resulted in a simple equivalent circuit model capable of predicting small-signal microwave properties to within ±5% of measurement. The device capacitance-voltage characteristic obtained is the most extensive published to date and has been determined for the first time using experimental data over the whole of the test frequency range.

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