Abstracts

Equivalent Circuit of the Schottky-Barrier Field-Effect Transistor at Microwave Frequencies (Short Papers)

R.H. Dawson. "Equivalent Circuit of the Schottky-Barrier Field-Effect Transistor at Microwave Frequencies (Short Papers)." 1975 Transactions on Microwave Theory and Techniques 23.6 (Jun. 1975 [T-MTT]): 499-501.

Johnson's high-frequency representation theory for MOSFET's, experimentally confirmed by Hopkins up to 1 GHz, is extended in this short paper for SBFET's and is found to substantially agree with data for 1-μm- and 1/2-μm-gate GaAs SBFET's up to 12 GHz. Regenerative-feedback conductance not accounted for by conventional models is seen to be present in SBFET's at microwave frequencies.

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