

Abstracts

Experimental and Computer Simulation Analysis of a Gunn Diode (Dec. 1971 [T-MTT])

Y. Ito, H. Komizo, T. Meguro, Y. Daido and I. Umebu. "Experimental and Computer Simulation Analysis of a Gunn Diode (Dec. 1971 [T-MTT])." 1971 Transactions on Microwave Theory and Techniques 19.12 (Dec. 1971 [T-MTT] (1971 Symposium Issue)): 900-905.

Bias-voltage and frequency dependencies of large signal electronic admittance of a Gunn diode have been measured systematically in the 8- to 13-GHz frequency range. The results were qualitatively verified by computer simulation. These results furnished information which was useful in the direct design of broad-band injection-locked oscillators and amplifiers. The results also gave a better understanding of irregular phenomena commonly observed in conventional oscillators.

 [Return to main document.](#)