Abstracts

RF Current and Voltage Waveform Measurement of an Oscillating Avalanche Diode

W.T. Chen and P. Scifo. "RF Current and Voltage Waveform Measurement of an Oscillating Avalanche Diode." 1970 G-MTT International Microwave Symposium Digest of Technical Papers 70.1 (1970 [MWSYM]): 289-290.

A method of measuring the rf impedance of an oscillating avalanche diode is described, and a technique for comparing calculated and measured rf impedance values for a variety of diffused Ge diode structures is considered. The value of this measurement method rests with its ability to provide values of the diode rf impedances under both large-signal and small-signal conditions for CW and pulsed operation in either the single-frequency or multifrequency mode of oscillation. The totality of these characteristics clearly delineates the uniqueness of this technique compared with conventional slotted-line measurements.

❑ Return to main document.