

Performance Characteristics of CW Silicon and GaAs Avalanche Diode Oscillators

F.A. Brand, V.J. Higgins and J.J. Baranowski. "Performance Characteristics of CW Silicon and GaAs Avalanche Diode Oscillators." 1966 G-MTT International Microwave Symposium Digest 66.1 (1966 [MWSYM]): 23-27.

Recently there have been numerous reports of coherent microwave generation from p-n junction structures when biased into the avalanche region and situated in a suitable circuit environment. However, little quantitative data on the performance of these devices in various circuit configurations have been available. Further, nothing has been presented concerning their application to specific system problems; nor has any data regarding their reliability been documented to date.

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