

Abstracts

The Capacitance of a Small Circular Schottky Diode for Submillimeter Wavelengths

J.T. Louhi. "The Capacitance of a Small Circular Schottky Diode for Submillimeter Wavelengths." 1994 Microwave and Guided Wave Letters 4.4 (Apr. 1994 [MGWL]): 107-108.

The capacitance of a small-area circular submillimeter wave diode is strongly affected by the edge effect of the charged anode. The correction factor due to the edge effect cannot be obtained analytically and the capacitance of a circular diode must be calculated using numerical methods. In this work a new, numerically derived formula for the junction capacitance of a small circular diode is presented.

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