

Abstracts

RF LDMOS characterization and its compact modeling

Jaejune Jang, O. Tornblad, T. Arnborg, Qiang Chen, K. Banerjee, Zhiping Yu and R.W. Dutton.
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This paper presents characterization of power LDMOS using device simulation and analytical modeling. Features of the LDMOS such as graded channel and quasi-saturation effect which result in a peculiar behavior on capacitance and nonlinear LDD resistance are analyzed and modeled using device simulation. A compact model for LDMOS is implemented in HSPICE based on additional lumped elements, combined with the BSIM3 MOSFET model.

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