

## **Bias and Geometrical Effects on Optically Controlled MESFETs**

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### ***Abstract***

A detailed characterization of the optical response of illuminated MESFETs due to several operating and geometrical conditions is presented. The characterization targets important optical performance factors including terminal photocurrent peak value and discharge time. A figure-of-merit is defined to quantify the overall response to these effects. The simulation results should be very useful in device operation and optimization.