

MACROMODELING WITH SPICE OF SiC SCHOTTKY DIODE

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ABSTRACT

This paper presents a SiC Schottky diode model including static and dynamic features implemented as a parameterized block constructed from SPICE Analog Behavioral Modeling (ABM) controlled sources. The parameters for this block are easy to extract, even from readily available diode data sheet information. This model can easily simulate the diode's reverse recovery and power losses behavior over all temperatures from 0C° to 175C°.

Keywords: Power Diode; Reverse Recovery; Silicon Carbide Schottky (SiC); Temperature effect ;Modeling; PSpice;ABM.

1. INTRODUCTION

The semiconductor industry has a well-established history of "smaller, faster, and cheaper." Improving performance and reducing device cost while shrinking packaging size is fundamental to virtually every semiconductor product type. For power products, improved performance is measured by increased efficiency and power density, higher power handling capability, and wider operating temperature range. Such improvements depend largely on the desirable characteristics of power components used, such as low switching and conduction losses, high switching frequency, stable electrical characteristics over a wide temperature range, high operating temperature, and high blocking voltage. As silicon power components approach their theoretical limits, compound semiconductor materials, such as silicon carbide (SiC) and gallium nitride (GaN), provide the capability to dramatically improve these parameters.

Efficient device models are required to evaluate the performance of SiC Schottky diodes in different applications and guide system design. Although several models have been developed for SiC Schottky diodes, most of them are based on device physics or based on experiments [1] [2]. For the former, usually a number of device parameters (which are usually known only by designers) are required to solve the model, and sometimes the model itself is complicated, and difficult to solve or time consuming. For the latter, a variety of experiments are needed. Parameter extractions are also involved and can be rather tough. Accordingly, these models are difficult to be integrated into a system simulation. It is necessary to find some models of SiC Schottky power diodes specialized for system modeling. This work is to address this need.

II. DIODE CHARACTERISTICS

In Fig.1, it is represented the original Schottky Diode model we have implemented. It is composed of a voltage controlled current generator in parallel to the original SPICE diode. The aim of this current generator is to provide a better accuracy in the reverse I-V characteristic. The I-V and reverse current are among the static characteristics of the device. Due to higher level of majority carrier injection in Si diode, this causes a lower voltage drop and hence smaller capacitance to bias the junction for turn-on process. This is the only advantage of Si diode compared to SiC. Here, SiC diode requires a higher voltage to forward bias the device [3]. Apart from that, SiC diode can handle larger reverse voltage as compared to Si.

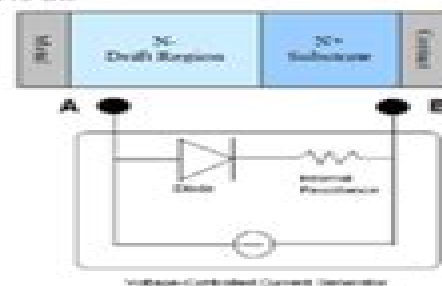


Figure 1: Electric Schottky diode Model

The forward I-V characteristics will be modeled by means of the standard piece-wise linear (PWL) model [4], featuring a D.C. voltage V_g and a series resistance R_d as follows:

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