Attributes

ebe name=switch_1 x_inputs=yes Jacobian: variable nodes: p n state_vars: aux_vars: aux_vars_startup: x_vars: x iparms: sparms: rparms: + r_on=1m + $r_off=1M$ + v_on=0 $+ x_high=1.0$ stparms: igparms: outparms: i v

Description

switch_1.ebe is a switch connected between nodes p and n. Its equivalent circuit is shown in the figure. When the controlling input x is greater than $x_{high}/2$, R' is equal to r_on; otherwise, it is r_off. The branch current and branch voltage are made available as output variables i and v, respectively.

$$p \leftarrow N'$$
 V_{on} n

Figure 1: Equivalent circuit of switch_1.ebe.