s_switch_diode_2 (subcircuit)

Attributes

```
inputs: x
outputs:
e_left_nodes:
e_right_nodes:
e_top_nodes: p
e_bottom_nodes: n
b_left_nodes:
b_right_nodes:
b_top_nodes:
b_bottom_nodes:
parameters:
  r_off: 10M
  r_on: 1m
  v_on_d: 0
  v_on_s: 0
  x_high: 1
```

Description

s_switch_diode_2 is a switch-diode pair (see figure). The parameters r_on and r_off specify the switch or diode resistance in the conducting and non-conducting states, respectively. v_on_s is the on-state voltage drop across the switch while v_on_d is the on-state voltage drop across the diode. x_high is the value of x which makes the switch turn on.
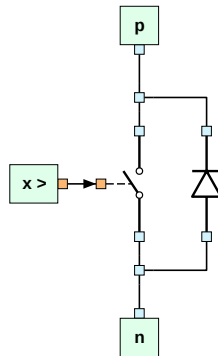

Figure 1: Schematic diagram of s_switch_diode_2.