



switch_e.ece

Attributes

```
mainnodes: p n
outvar: i1=brc_of_s0 v1=brv_of_s0
ind_nodes: node_1 node_2
rparms: ron=1m roff=1M v_high=1.0
```

Description

`switch_e.ece` is a switch which behaves like a resistance R_{on} when closed and R_{off} when open. The voltage difference between nodes `node_1` and `node_2` determines if the switch is open or closed.

If $[v(\text{node}_1) - v(\text{node}_2)] > v_high/2$, the switch is closed, else it is open.

The branch voltage `v1` and the branch current `i1` are made available as output variables.

AC behaviour is not implemented.