



thyristor_e.ece

Attributes

mainnodes: anode cathode

outvar: i1=brc_of_th0 v1=brv_of_th0

ind_nodes: g1 g2

rparms: ron=0.1 roff=10M v_high=1.0

Description

`thyristor_e.ece` is an idealized thyristor which behaves like a resistance R_{on} when it is on and R_{off} when it is off. The voltage difference between nodes `g1` and `g2` is used to determine if the thyristor is on or off.

If $[v(g1) - v(g2)] > v_high/2$, the thyristor is triggered.

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

AC behaviour is not implemented.