



## switch\_diode\_g.ece

### Attributes

```
mainnodes: c e
main_var: g
rparms: ron=1e-3 roff=1M g_high=1.0
```

### Description

`switch_diode_g.ece` is parallel combination of a switch (“S” in the figure) and an idealized diode (“D” in the figure). The value of the general variable `g` determines if the switch `S` is open (i.e., resistance=`roff`) or closed (i.e., resistance=`ron`). If  $g > g\_high/2$ , `S` is closed, else it is open. The diode `D` is an idealized diode with on resistance `ron` and off resistance `roff`.

AC behaviour is not implemented.