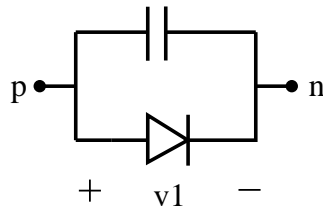


diode_r_c.ece



Attributes

```
mainnodes: p n
outvar: v1=v1_of_d1
rparms:
+   ron=1.0
+   roff=1.0M
+   cap=10n
+   v_on=0
```

Description

`diode_r_c.ece` is an idealized diode connected between `p` and `n`. Its resistance is `ron` when the branch voltage ($v(p) - v(n)$) is greater than `v_on`, and `roff` otherwise. A capacitance is connected in parallel with the diode. In power electronic circuits, this capacitance often helps in convergence of Newton-Raphson iterations. The output variable `v1` provides the branch voltage.

AC behaviour is not implemented.