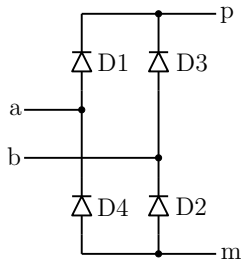


## diode\_bridge\_1ph.ece



### Attributes

```
mainnodes: a b p m
outvar:
+ id1=cur(p)_of_d1
+ id2=cur(p)_of_d2
+ id3=cur(p)_of_d3
+ id4=cur(p)_of_d4
rparms:
+ r_on=1m
+ r_off=100k
+ v_on=0
+ cap=0.2n
```

### Description

diode\_bridge\_1ph.ece is a single-phase diode bridge (see figure). The diodes are  $R_{\text{on}}/R_{\text{off}}$ -type,  $r_{\text{on}}$  and  $r_{\text{off}}$  being the on- and off-state resistances, respectively.  $v_{\text{on}}$  is used to specify the turn-on voltage of the diodes. A capacitance (specified by **cap**) is added between **a** and **m**, and between **b** and **m**. In some cases, it may help convergence of the Newton-Raphson process.

AC behaviour is not implemented.