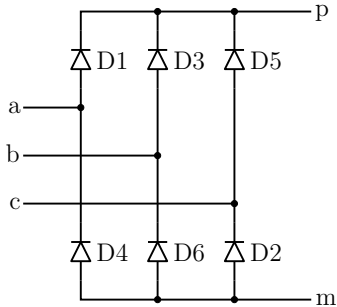


## diode\_bridge\_3ph.ece



### Attributes

```
mainnodes: a b c p m
outvar:
+ id1=cur(p)_of_d1
+ id2=cur(p)_of_d2
+ id3=cur(p)_of_d3
+ id4=cur(p)_of_d4
+ id5=cur(p)_of_d5
+ id6=cur(p)_of_d6
rparms:
+ r_on=1m
+ r_off=100k
+ v_on=0
+ cap=0.2n
```

### Description

`diode_bridge_3ph.ece` is a three-phase diode bridge (see figure). The diodes are  $R_{\text{on}}/R_{\text{off}}$ -type, `r_on` and `r_off` being the on- and off-state resistances, respectively. `v_on` is used to specify the turn-on voltage of the diodes. A capacitance (specified by `cap`) is added between `a` and `m`, between `b` and `m`, and between `c` and `m`. In some cases, it may help convergence of the Newton-Raphson process.

AC behaviour is not implemented.