diode_spice.ebe

Attributes

```
ebe name=diode_spice
Jacobian: variable
nodes: p n
state_vars: qd0 qd1
aux_vars:
aux_vars_startup: id_s
x_vars:
iparms:
sparms:
rparms:
+ af=0.0
+ area=1.0
+ bv=100
+ bvj=100
+ cjo=1p
+ eg=1.11
+ fc=0.5
+ ibv=0.001
+ is=1e-14
+ kf=0.0
+ m=0.5
+ n0=1.0
+ tnom=300.15
+ tt=0.0
+ vj=1.0
+ xti=3.0
+ t1=300.15
+ vth=0
+ vth_nom=0
+ f1=0
+ f2=0
+ f3=0
+ fcp=0
+ ibv_calc=0
+ is_temp=0
+ cur_max=1e3
+ k_crit=0
stparms:
igparms:
outparms: i v
```

Description

diode_spice is the SPICE-3 diode model. The parameters bv, eg, fc, ibv, is, m, n0, vj, xti, have the same meaning as in the SPICE-3 diode model. t1 is the diode temperature in $^{\circ}$ K. Other parameters are computed within the ebe template.

The branch current and branch voltage are made available as output variables i and v, respectively.