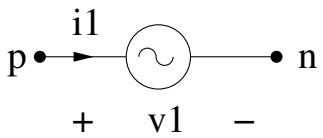

vsrcac.ece

Attributes

```
mainnodes: p n
outvar: v1=brv_of_v0 i1=brc_of_v0
rparms: a=0 f_hz=1 phi=0 t0=0 vdc=0
outvar_ac: v1ac=brv_of_v0 i1ac=brc_of_v0
```

Description

`vsrcac.ece` is an AC voltage source connected between nodes `p` and `n`. The real parameters, `a`, `f_hz`, `phi`, and `t0` represent A, f, ϕ, and t_0, respectively, in the following equation for the source voltage:

$$V_s(t) = A \ \sin(2\pi f(t - t_0) + \phi) \ . \tag{1}$$

The output variables `i1` and `v1` are the branch current and branch voltage, respectively.

In AC analysis, `vsrcac` is a replaced by a voltage source $A\angle\phi$. `i1ac` and `v1ac` are the AC branch current and branch voltage, respectively.