

`diode_zener_1.ece`

Description

`diode_zener_1.ece` is a p - n junction diode model. The real parameters have the same meaning as the diode model implemented in SPICE 3. The parameter `bv` specifies the breakdown voltage, as in the SPICE 3 model.

`diode_zener_1.ece` and `diode_spice_1.ece` are basically the same; the reason for providing `diode_zener_1.ece` is to make a different symbol (that of a zener diode) available to the user. If a diode is being used as a zener diode in the user's circuit, it is convenient to show it with the zener diode symbol.

The diode current is made available as output variable `id`.

AC (small-signal) implementation of the model is also incorporated, following SPICE 3.