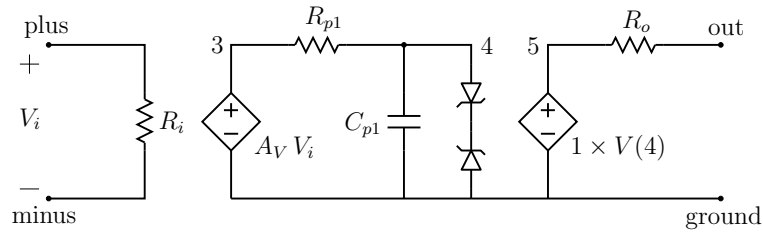


## opamp2\_a.ece



### Attributes

```
mainnodes: plus minus out
rparms:
+ rin=1M
+ rout=10
+ av=1e5
+ rp1=1k
+ cp1=1.5915u
+ v_zener=14.3
```

### Description

opamp2\_a.ece is an idealized (behavioral) op amp model as shown in the figure. It includes an  $RC$  section to emulate the gain-bandwidth product limitation of a real Op Amp. Zener diodes are used to limit the output voltage to about  $\pm(v\_zener + 0.7) V$ .

The small-signal model for this element has been implemented by replacing the components by the corresponding AC elements. Diodes are replaced by open circuits.