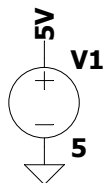


Power Supply



Extras

```
.inc MCP6001.lib
.param C=10uF
.ic V(IC) = 0
;.options ptrantau=1u
;.option cshunt=1e-12
;.option gmin=1e-10 abstol=1e-10 reltol=0.003
```

Simulations

```
.tran 0 100ms 0 100
.ac dec 20 1 1Meg
.tran 0 100ms 0 100
```

Formulas

$$V_{out} = V_{in} * [(R_F + R_G)/R_G] + (V_{cc}/2) * [(R_F + R_G)/R_G]$$