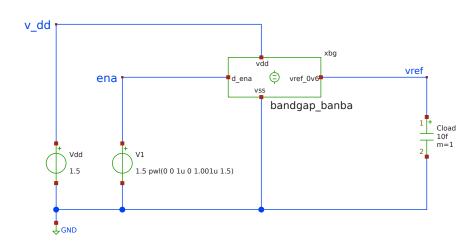
```
.control
option klu
option method=gear
option noacct
option noinit
save v(vref)
save all
compose temp vec start=-30 stop=125 step=5
let vref vec=vector(length(temp vec))
let idx=0
foreach tmp $&temp_vec
  option temp=$tmp
  tran 0.01u 50u
  meas tran vr FIND v(vref) AT=50u
  let vref vec[idx]=vr
  let idx = \overline{i}dx + 1
end
plot vref vec vs temp vec
wrdata bandgap banba.txt vref vec vs temp vec
```



MODEL

.endc

NGSPICE







annotate OP

