Shunt Clipper

.MODEL DIO D(IS=1.8E-14 RS=2 BV=50.0 IBV=1e-4
+ CJO=2e-12 M=0.333 N=2.06 TT=4.32e-9)

R1 1 2 1k
D1 2 3 DIO
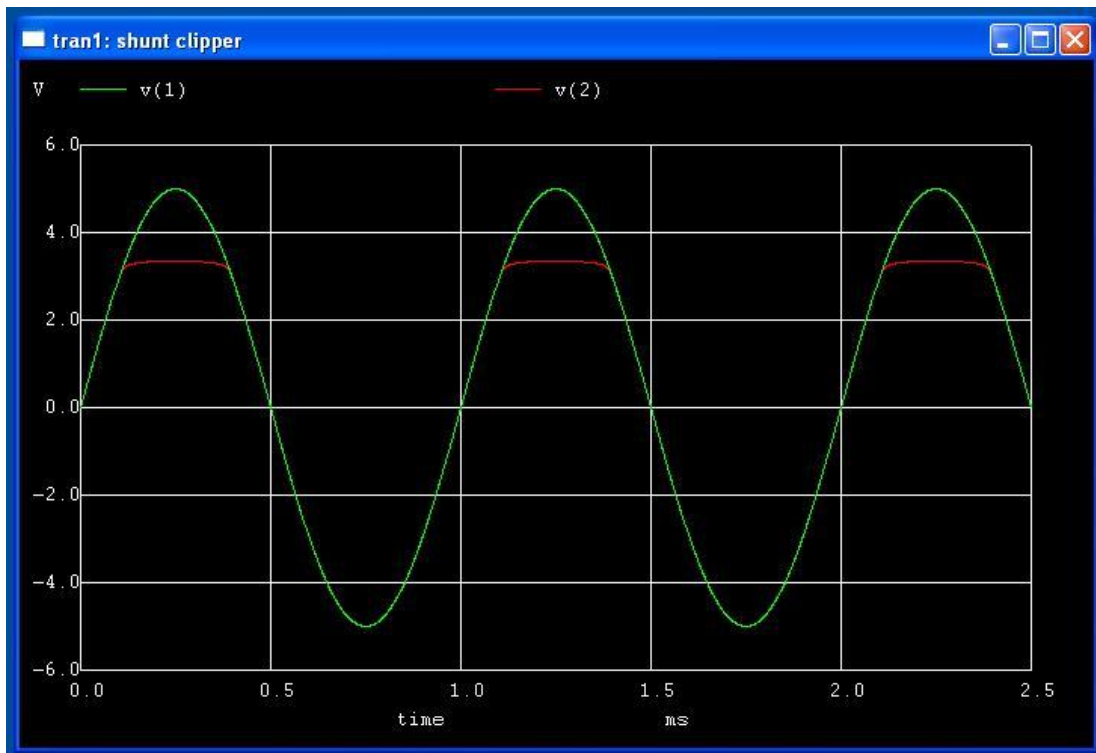
*v1 1 0 sin(0 5V 1k)
v1 1 0 pwl(0ms -5v 5ms 5v 10ms -5v 15ms 5v 20ms -5v) r=0 td=0
v2 3 0 dc -2v
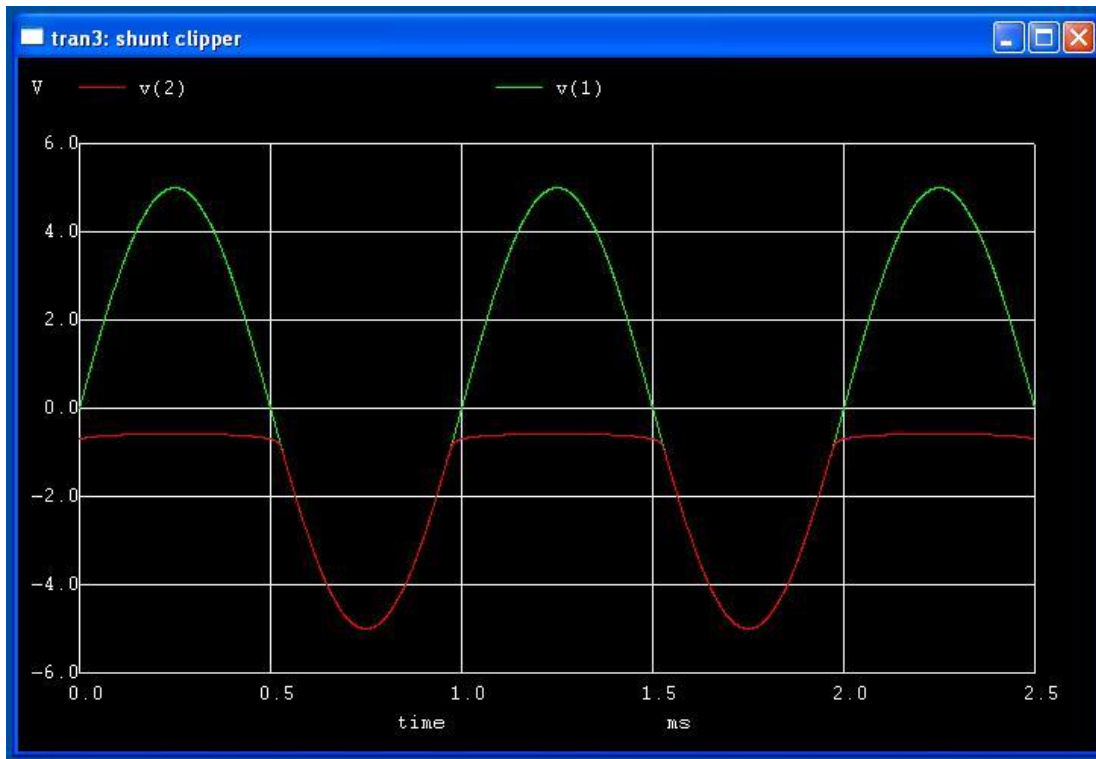.tran 0.001m 30m
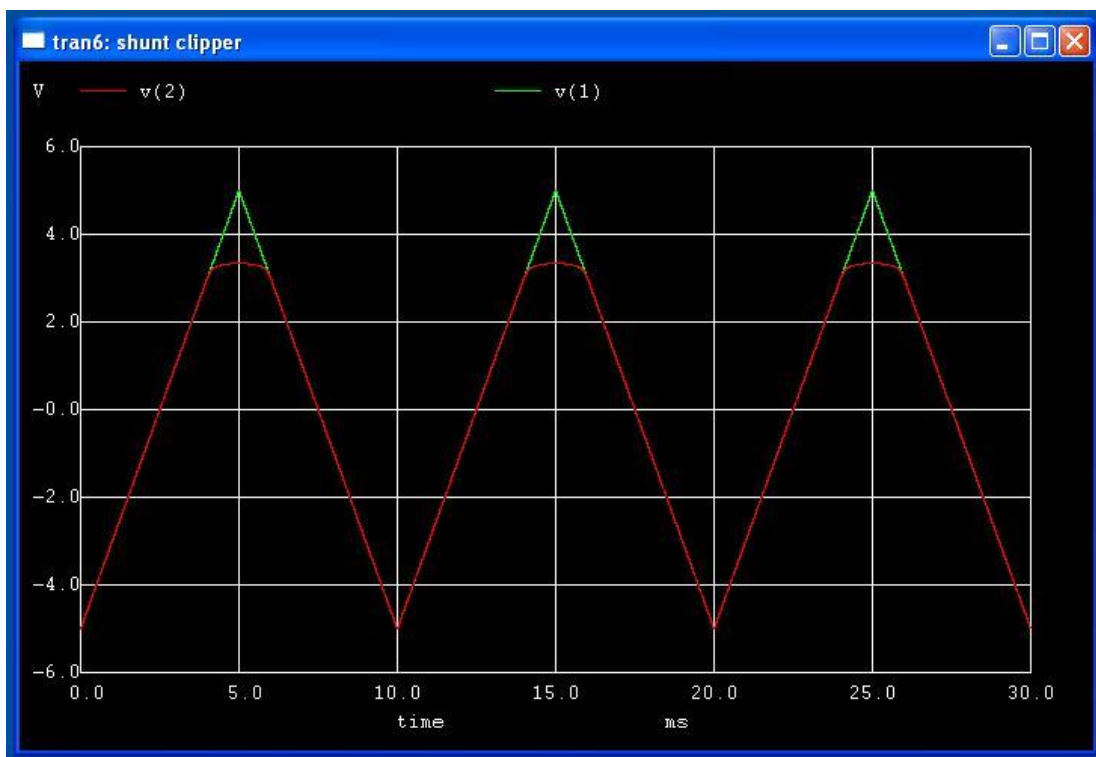
.control
run
plot v(1) v(2)
.endc

.end

--Screenshots--

1.

2.

3.

4.