

Boost Converter

Input 12 V

Output 60 V @ 300 mA

600 kHz

```
.subckt ss5p10 1 2
ddio 1 2 legd
dgr 1 2 grd
.model legd d is = 1.66495E-005 n = 1.63118 rs = 0.0757991
+ eg = 0.625389 xti = 4.96251 tnom = 27
+ cjo = 3.37822E-010 vj = 0.700009 m = 0.500017 fc = 0.5
+ tt = 2.21967E-013 bv = 110 ibv = 20 af = 1 kf = 0
.model grd d is = 5.03982E-015 n = 1.0775 rs = 0.0143135
+ eg = 1.79861 xti = 0.841827 tnom = 27
.ends
```

.tran 0 60m 0 startup uic

loop compensation time to 2 ms
set f to approx 600 kHz

--- C:\Users\GT\Documents\60V_300mA_LED_Driver\DC_DC_Boost.asc ---

