**** 12/11/24 11:31:39 ******* PSpice Lite (April 2011) ******* ID# 10813 ****

 ** Profile: "SCHEMATIC1-ACExpSim2" [F:\Schoolwork\AnalogCircuit\AnalogCircuitExp2\AnalogCircuitExp2-PS
piceFiles\SCHEMATIC1\ACExpSi

 ****   CIRCUIT DESCRIPTION

****

** Creating circuit file "ACExpSim2.cir"
** WARNING: THIS AUTOMATICALLY GENERATED FILE MAY BE OVERWRITTEN BY SUBSEQUENT SIMULATIONS

*Libraries:
* Profile Libraries :
* Local Libraries :
.LIB "../../../analogcircuitexp2-pspicefiles/analogcircuitexp2.lib"
* From [PSPICE NETLIST] section of D:\OrCAD\OrCAD_16.5_Lite\tools\pspice\PSpice.ini file:
.lib "nomd.lib"

*Analysis directives:
.OP
.PROBE V(alias(*)) I(alias(*)) W(alias(*)) D(alias(*)) NOISE(alias(*))
.INC "..\SCHEMATIC1.net"

**** INCLUDING SCHEMATIC1.net ****
* source ANALOGCIRCUITEXP2
V_Vs   VS 0
+SIN 0 5mV 1kHz 0 0 0
R_Rs   VS VI 1k TC=0,0
C_C1   VI N00381 10uF TC=0,0
R_Rb2   0 N00381 30k TC=0,0
R_Rb1   N00381 N00522 57k TC=0,0
Q_T   N00410 N00381 N00414 Q2N3904
R_Rc   N00410 N00522 2k TC=0,0
R_Re   0 N00414 1k TC=0,0
C_Ce   0 N00414 47uF TC=0,0
C_C2   N00410 VO 10uF TC=0,0
V_Vcc   N00522 0 12V
R_RL   0 VO 2k TC=0,0

**** RESUMING ACExpSim2.cir ****
.END

INFO(ORPSIM-15423): Unable to find index file analogcircuitexp2.ind for library file analogcircuitexp2.li
b.

INFO(ORPSIM-15422): Making new index file analogcircuitexp2.ind for library file analogcircuitexp2.lib.

Index has 1 entries from 1 file(s).
□

****   BJT MODEL PARAMETERS

****

```
             Q2N3904
             NPN
      LEVEL    1
         IS    6.734000E-15
         BF   70
         NF    1
        VAF   74.03
        IKF     .06678
        ISE    6.734000E-15
         NE    1.259
         BR     .7371
         NR    1
        ISS    0
         RB   10
         RE    0
         RC    1
        CJE    4.493000E-12
        VJE     .75
        MJE     .2593
        CJC    3.638000E-12
        VJC     .75
        MJC     .3085
       XCJC    1
        CJS    0
        VJS     .75
         TF  301.200000E-12
        XTF    2
        VTF    4
        ITF     .4
         TR  239.500000E-09
        XTB    1.5
         KF    0
         AF    1
         CN    2.42
          D     .87
```

☐
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 ** Profile: "SCHEMATIC1-ACExpSim2" [F:\Schoolwork\AnalogCircuit\AnalogCircuitExp2\AnalogCircuitExp2-PSpiceFiles\SCHEMATIC1\ACExpSi

 ****   SMALL SIGNAL BIAS SOLUTION   TEMPERATURE =   27.000 DEG C

****

NODE	VOLTAGE	NODE	VOLTAGE	NODE	VOLTAGE	NODE	VOLTAGE
(VI)	0.0000	(VO)	0.0000	(VS)	0.0000	(N00381)	3.2412

(N00410)   6.9872 (N00414)   2.5520 (N00522)   12.0000

        VOLTAGE SOURCE CURRENTS
        NAME   CURRENT

        V_Vs   0.000E+00
        V_Vcc   -2.660E-03

        TOTAL POWER DISSIPATION   3.19E-02   WATTS

□
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piceFiles\SCHEMATIC1\ACExpSi

 ****   OPERATING POINT INFORMATION   TEMPERATURE =   27.000 DEG C

****

**** BIPOLAR JUNCTION TRANSISTORS

NAME   Q_T
MODEL   Q2N3904
IB   4.56E-05
IC   2.51E-03
VBE   6.89E-01
VBC   -3.75E+00
VCE   4.44E+00
BETADC   5.49E+01
GM   9.36E-02
RPI   5.95E+02
RX   1.00E+01
RO   3.10E+04
CBE   3.48E-11
CBC   2.09E-12
CJS   0.00E+00
BETAAC   5.57E+01
CBX/CBX2   0.00E+00
FT/FT2   4.04E+08

        JOB CONCLUDED
□
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piceFiles\SCHEMATIC1\ACExpSi

****   JOB STATISTICS SUMMARY

****

  Total job time (using Solver 1)   =   .11
□