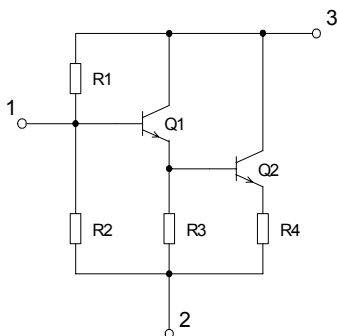


Preliminary

SPICE Model BG614

BG614-Chip



Q1	T1
Q2	T1 (area factor: 0.5)
R1	600Ω
R2	2000Ω
R3	100Ω
R4	4Ω

Transistor Chip Data T1 (Berkley-SPICE 2G.6 Syntax)

.MODEL T1 NPN(

+ IS = 2.6e-015

+ IKF = 2.262

+ NR = 1

+ NC = 2.179

+ RE = 0.472

+ XTI = 3.43

+ TF = 1.306E-12

+ PTF = 0

+ XCJC = 1

+ MJS = 0.5

BF = 105

ISE = 2.978E-12

VAR = 1.2

RB = 2.674

RC = 2.105

CJE = 3.716E-13

XTF = 2.71

CJC = 2.256E-13

TR = 3.884E-10

FC = 0.8215)

NF = 1.021

NE = 3.355

IKR = 0.00631

IRB = 1.8E-05

XTB = -0.9

VJE = 0.8986

VTF = 0.492

VJC = 0.7395

CJS = 6E-14

VAF = 1000

BR = 100

ISC = 1.923E-14

RBM = 2.506

EG = 1.114

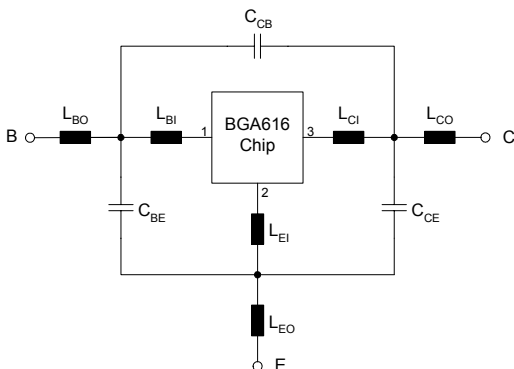
MJE = 0.3152

ITF = 2.444

MJC = 0.3926

VJS = 0.5

Package Equivalent Circuit



L _{BI}	0.47 nH
L _{BO}	0.53 nH
L _{EI}	0.23 nH
L _{EO}	0.05 nH
L _{CI}	0.56 nH
L _{CO}	0.58 nH
C _{BE}	136 fF
C _{CB}	6.9 fF
C _{CE}	134 fF

Valid up to 3GHz