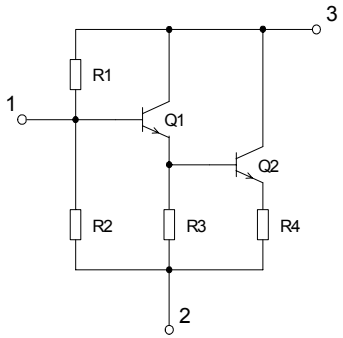
Preliminary

SPICE Model BG612

BG612-Chip



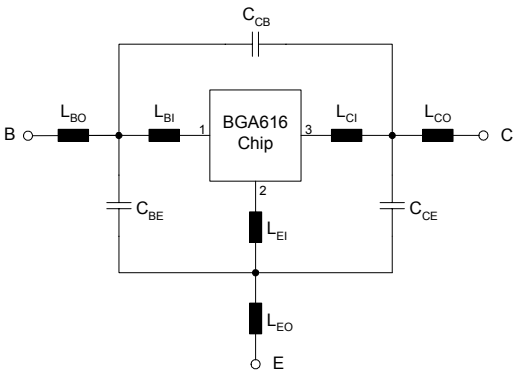
Q1	T1
Q2	T1 (area factor: 0.5)
R1	520Ω
R2	2000Ω
R3	120Ω
R4	4Ω

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

.MODEL T1 NPN(

+ IS = 2.6e-015	BF = 105	NF = 1.021	VAF = 1000
+ IKF = 2.262	ISE = 2.978E-12	NE = 3.355	BR = 100
+ NR = 1	VAR = 1.2	IKR = 0.00631	ISC = 1.923E-14
+ NC = 2.179	RB = 2.674	IRB = 1.8E-05	RBM = 2.506
+ RE = 0.472	RC = 2.105	XTB = -0.9	EG = 1.114
+ XTI = 3.43	CJE = 3.716E-13	VJE = 0.8986	MJE = 0.3152
+ TF = 1.306E-12	XTF = 2.71	VTF = 0.492	ITF = 2.444
+ PTF = 0	CJC = 2.256E-13	VJC = 0.7395	MJC = 0.3926
+ XCJC = 1	TR = 3.884E-10	CJS = 6E-14	VJS = 0.5
+ MJS = 0.5	FC = 0.8215)		

Package Equivalent Circuit



L_{BI}	0.47	nH
L_{B0}	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