Library

Tina

Model

SPICE-BJT

Type

BDV95
BDX35
BDX36
BDX37
BDX77
BDX77F
BF199
BF224
BF240
BF258
BF374
BF391
BF392
BF393
BF420
BF422
BF689K
BF720T1
BF763
BF844
BF959
BFG134
BFG135
BFG17A
BFG195
BFG197
BFG198
BFG33
BFG34
BFG35
BFG65
BFG67
BFG90A
BFG91A
BFG92A
BFG93A
BFG96
BFG97
BFP90A
BFP91A
BFP96
BFQ135
BFQ136

466/1061

Tolerance Model

(•) None ( ) General

Model Parameters

Usage: RF NPN	
Saturation current [A]	12,6f
Forw. emission coeff. [-]	991m
Rev. emission coeff. [-]	991m
Emitter resistance [Ohm]	305m
Collector resistance [Ohm]	1
Base resistance [Ohm]	10
Forw. early voltage [V]	56,7
Rev. early voltage [V]	28,3
b-e saturation current [A]	376f
b-c saturation current [A]	376f
Substrate sat. current [A]	0
b-e. emission coeff. [-]	1,49
b-c. emission coeff. [-]	1,49
Substrate em. coeff. [-]	1
Forward beta [-]	180
Reverse beta [-]	5
Forw. beta roll off [A]	22,7m
Rev. beta roll off [A]	22,7m
b-c zero bias cap. [F]	1,17p
b-e zero bias cap. [F]	1,99p
Subst. zero bias cap. [F]	0
b-c built-in potential [V]	6,33
b-e built-in potential [V]	3,91
Subst. built-in pot. [V]	750m
b-c grading coeff. [-]	450m
b-e grading coeff. [-]	520m
Subst. grading coeff. [-]	0
Forward transit time [s]	196p
Reverse transit time [s]	25,5n
Energy gap [eV]	1,11
Flicker noise coeff. [-]	0
Flicker noise exp. [-]	1
Max. collector-emitter voltage (V)	100
Max. collector-base voltage (V)	100
Max. emitter-base voltage (V)	10
Max. collector current (A)	1
Max. base current (A)	100m
Max. power dissipation (W)	1

OK Cancel Help