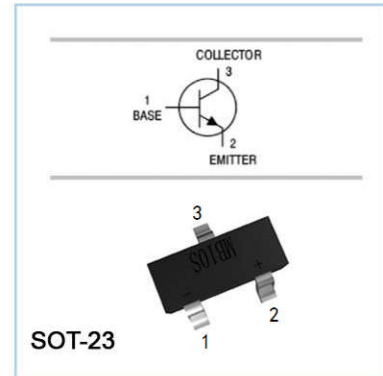# S9018

NPN Silicon Epitaxial Planar Transistor

for AM/FM amplifier and local oscillator of
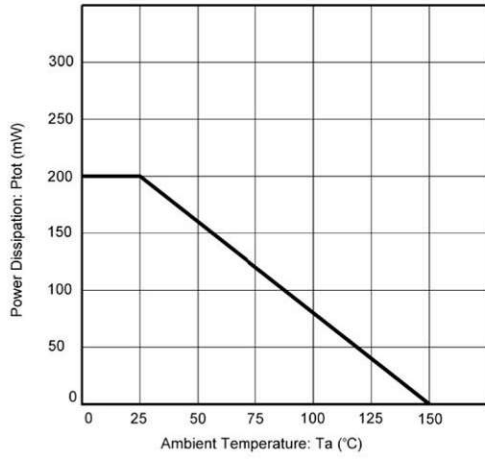FM/VHF tuner applications

SOT-23

Absolute Maximum Ratings (T_a = 25 °C)

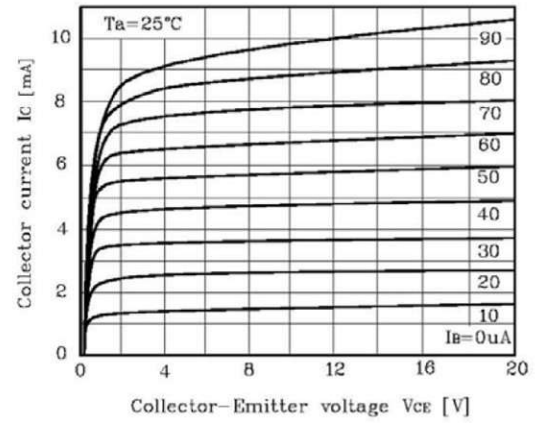| Parameter	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	30	V
Collector Emitter Voltage	V_{CEO}	15	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current	I_C	50	mA
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	- 55 to + 150	°C

Electrical Characteristics at T_a = 25 °C

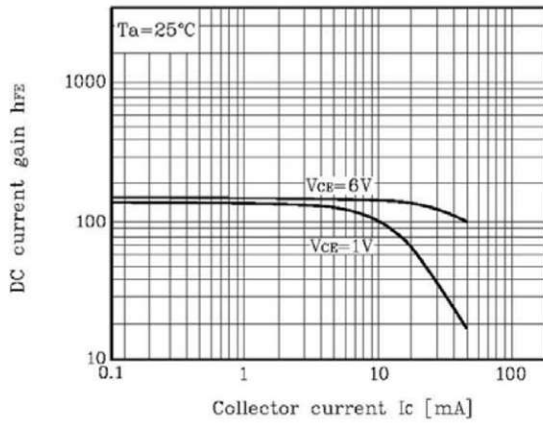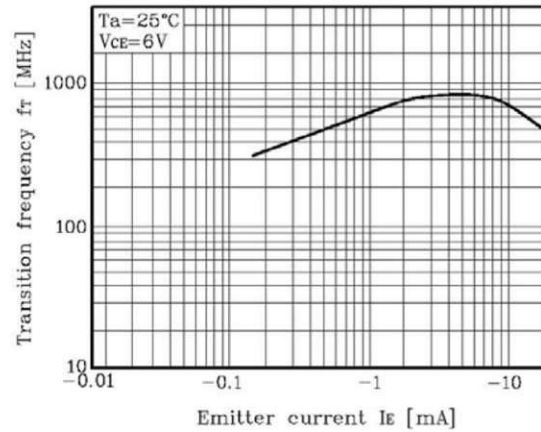| Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at V_{CE} = 5 V, I_C = 1 mA Current Gain Group	h_{FE}	100	- -	200	- -
Collector Base Cutoff Current at V_{CB} = 12 V	I_{CBO}	-	-	50	nA
Collector Base Breakdown Voltage at I_C = 100 µA	$V_{(BR)CBO}$	30	-	-	V
Collector Emitter Breakdown Voltage at I_C = 1 mA	$V_{(BR)CEO}$	15	-	-	V
Emitter Base Breakdown Voltage at I_E = 100 µA	$V_{(BR)EBO}$	5	-	-	V
Collector Emitter Saturation Voltage at I_C = 10 mA, I_B = 1 mA	$V_{CE(sat)}$	-	-	0.5	V
Collector Base Capacitance at V_{CB} = 10 V, f = 1 MHz	C_{ob}	-	1.3	1.7	pF
Gain Bandwidth Product at V_{CE} = 5 V, I_C = 5 mA	f_T	700	1100	-	MHz

Pc-Ta

I_C - V_{CE}

h_{FE} - I_C

f_T - I_E

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