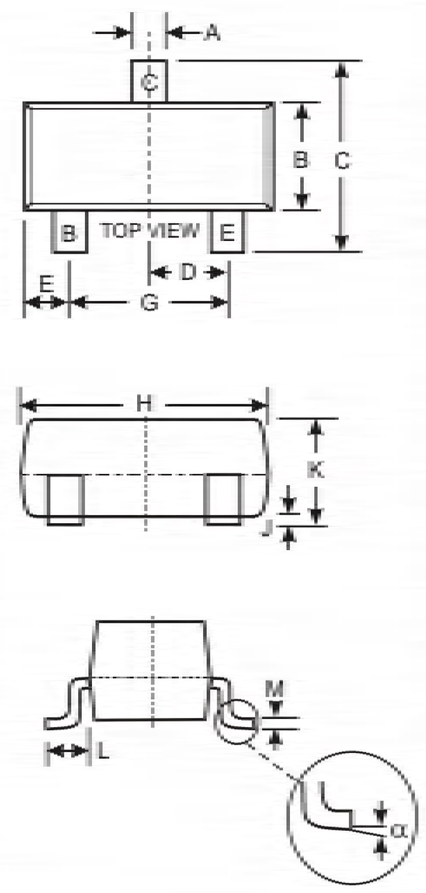
S9018 SOT-23

Features

- High Current Gain Bandweidth Product.
- AM/FM Amplifier,Local Oscillator of FM/AVHF Tuner.
- Marking Code:J8

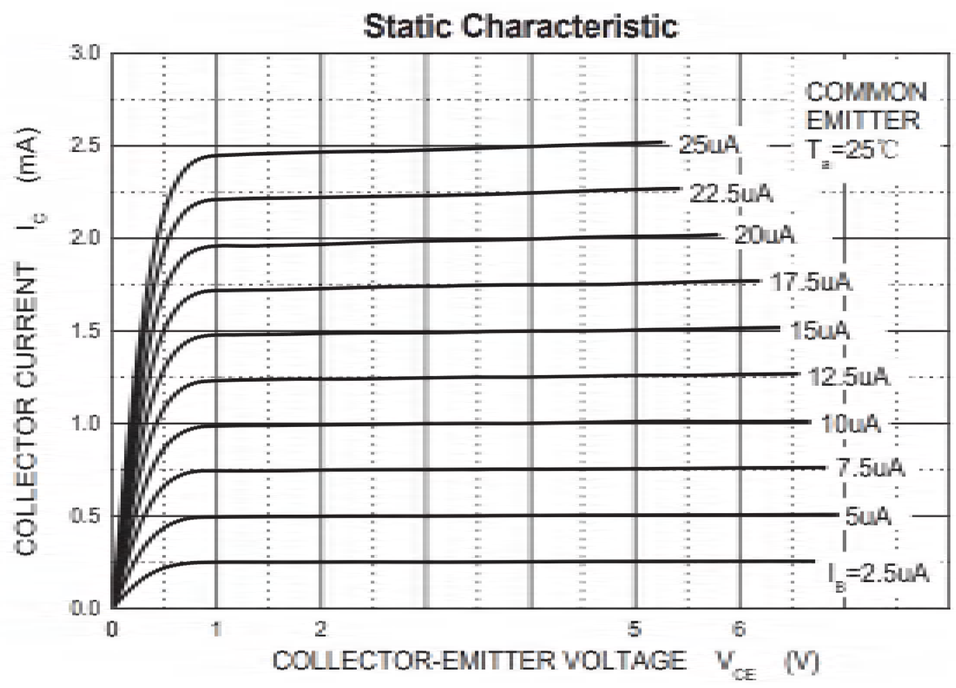
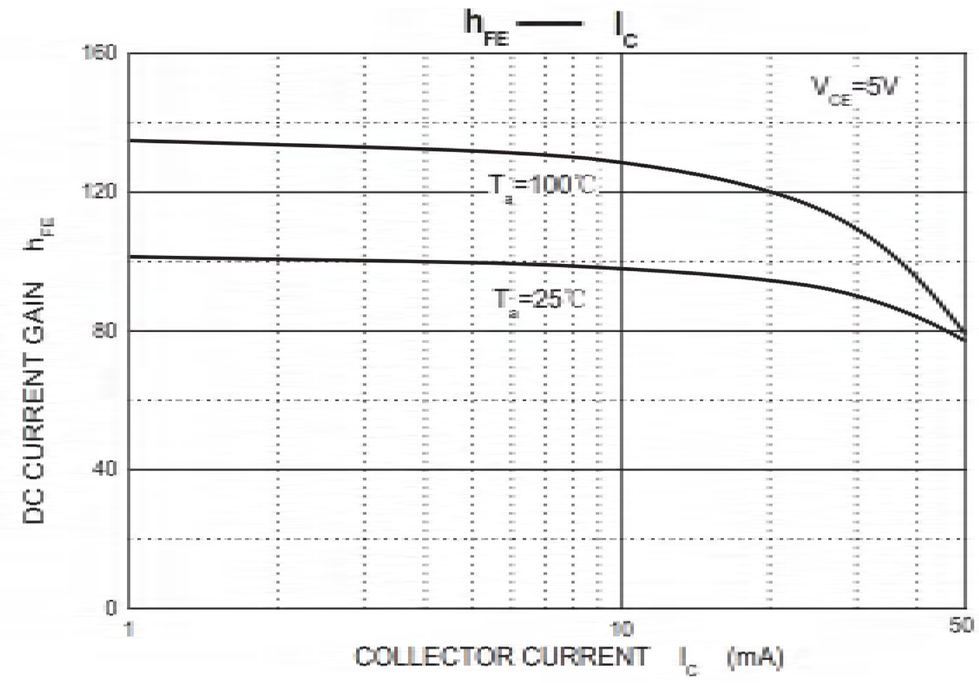
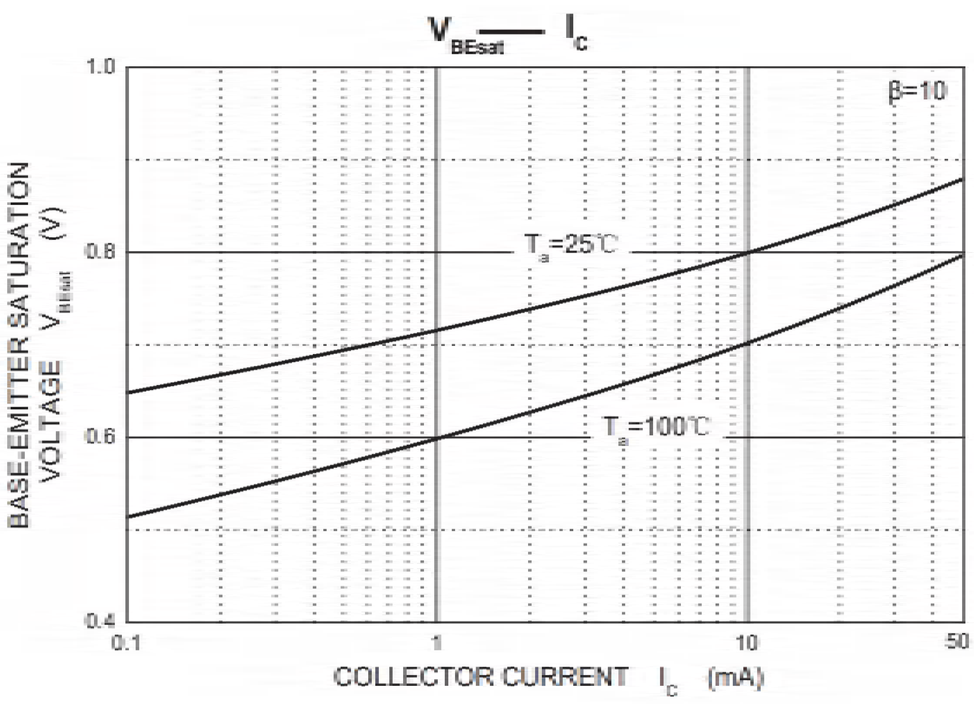
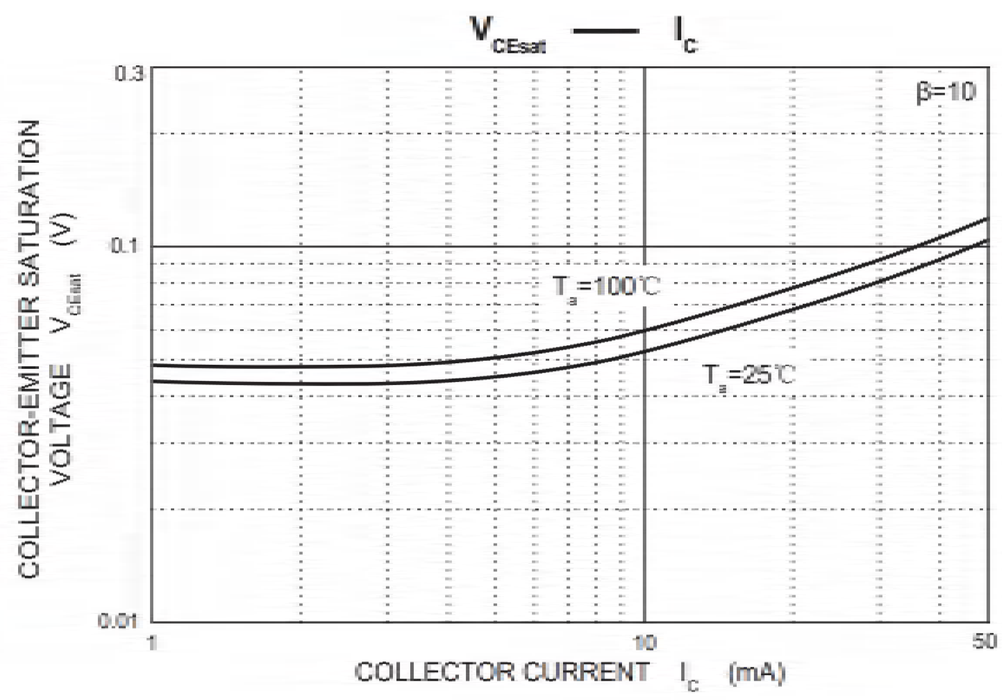
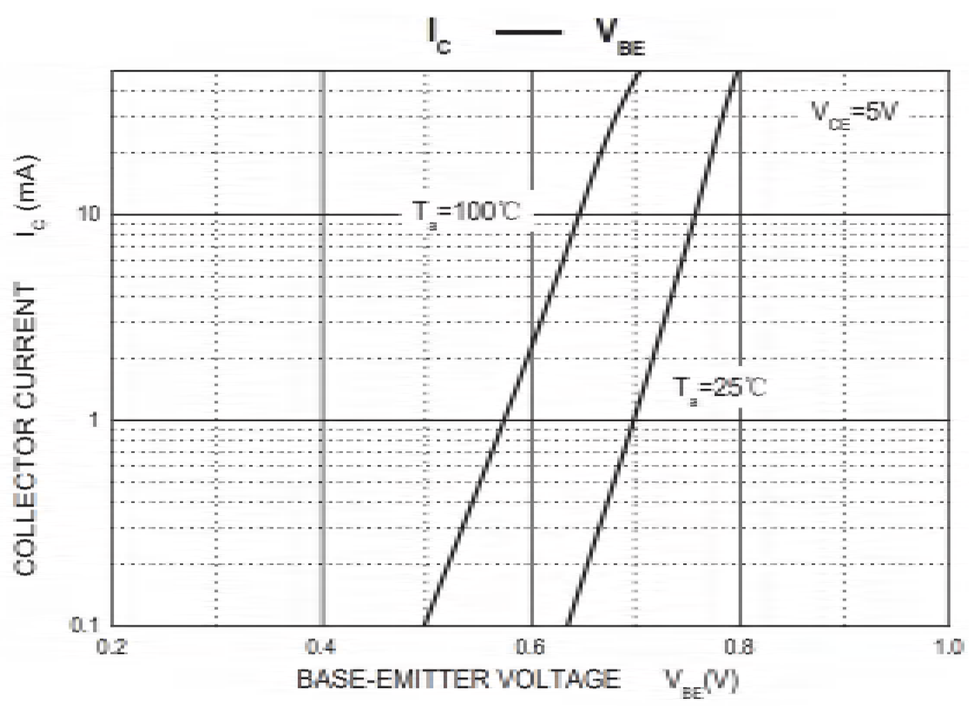
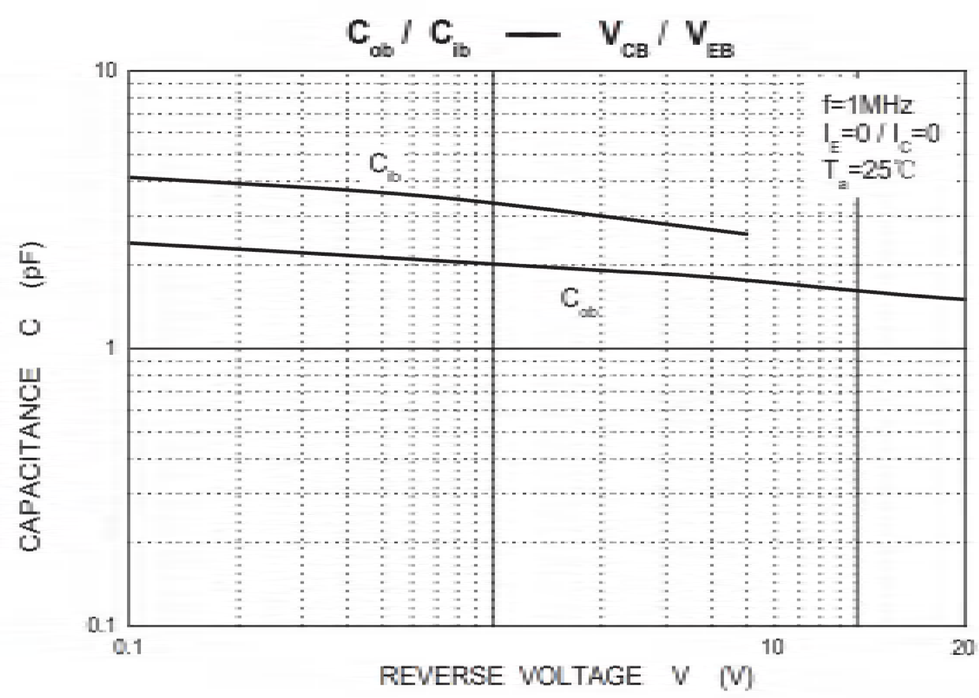
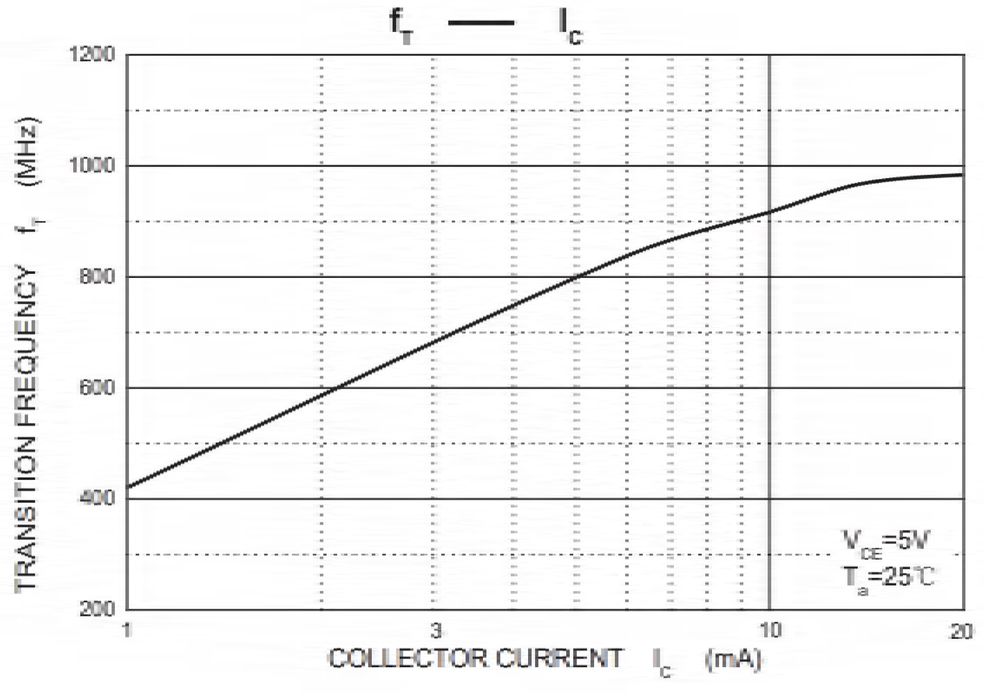
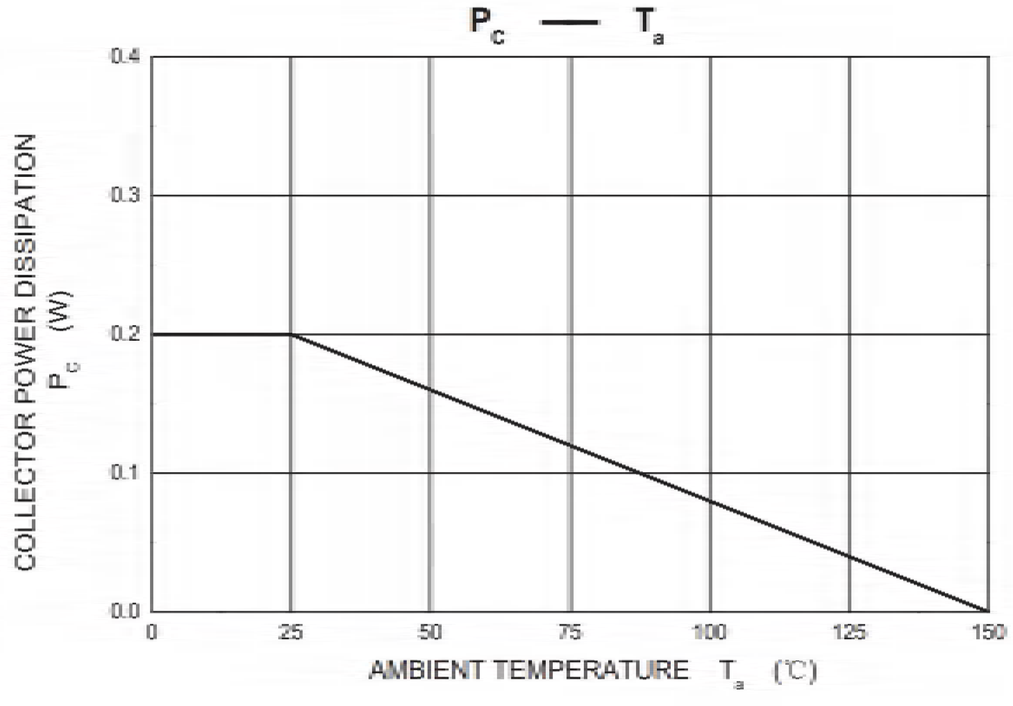


SOT-23		
Dim	Min	Max
A	0.37	0.51
B	1.20	1.40
C	2.30	2.50
D	0.89	1.03
E	0.45	0.60
G	1.78	2.05
H	2.80	3.00
J	0.013	0.10
K	0.903	1.10
L	0.45	0.61
M	0.085	0.180
α	0°	8°
All Dimensions in mm		

Maximum Ratings @ T_A = 25°C unless otherwise specified

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 @ T_A = 25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C= 100μA, I_E=0	30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C= 1mA, I_B=0	15			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=100μA, I_C=0	5			V
Collector cut-off current	I_{CBO}	V_{CB}=12V, I_E=0			0.05	μA
Collector cut-off current	I_{CEO}	V_{CE}=12V, I_B=0			0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}= 3V, I_C=0			0.1	μA
DC current gain	$h_{FE(1)}$	V_{CE}=5V, I_C= 1mA	105		195	
Collector-emitter saturation voltage	V_{CE}(sat)	I_C=10mA, I_B= 1mA			0.5	V
Base-emitter saturation voltage	V_{BE}(sat)	I_C=10mA, I_B= 1mA			1.4	V
Transition frequency	f_T	V_{CE}=5V, I_C= 5mA f=400MHz	600			MHz

TYPICAL TRANSIENT CHARACTERISTICS