

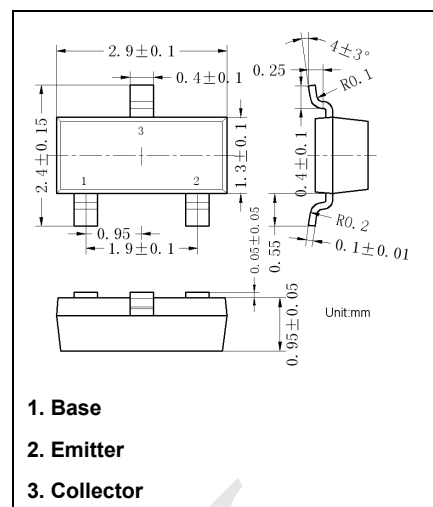
SOT-23 Plastic-Encapsulate Transistors

S9018 NPN Transistors

Features

- AM/FM Amplifier, Local Oscillator of FM/VHF Tuner
- High Current Gain Bandwidth Product

Marking: J8



Maximum Ratings ($T_a=25^\circ\text{C}$ unless otherwise noted)

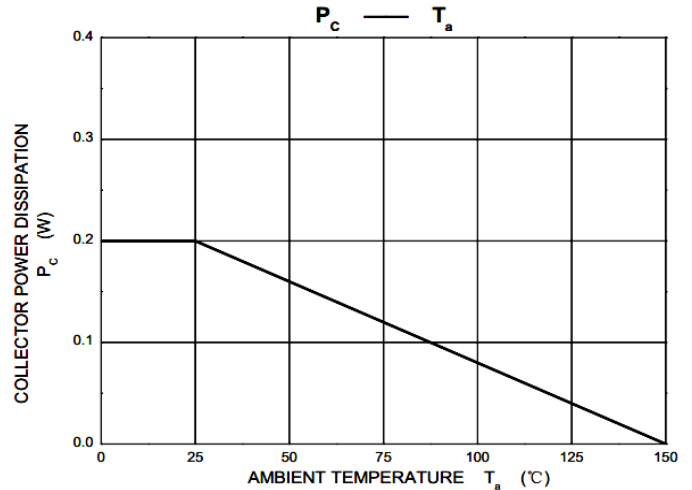
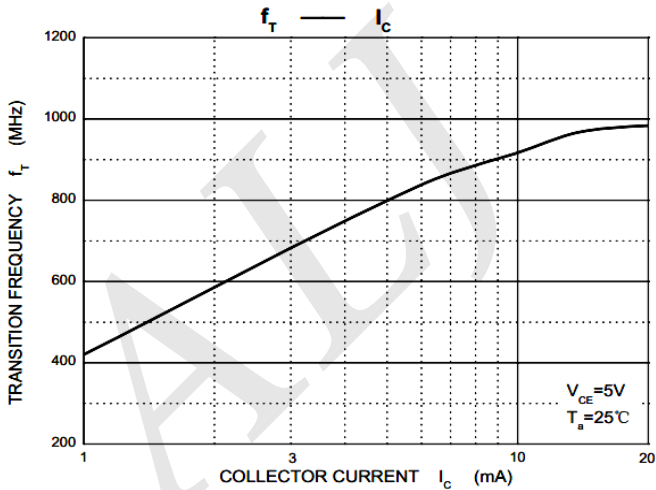
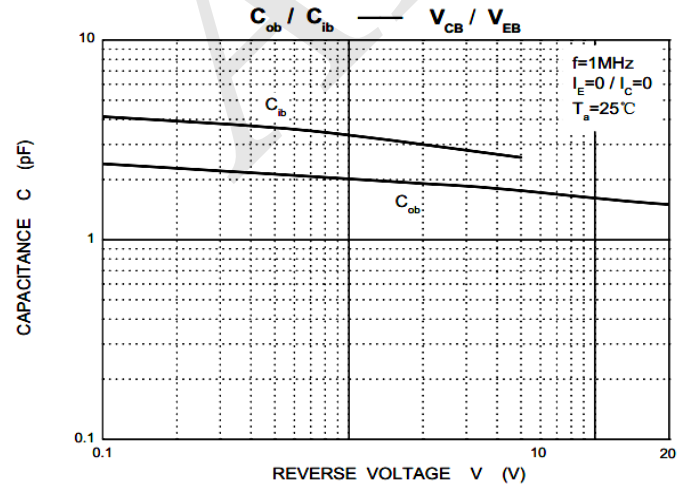
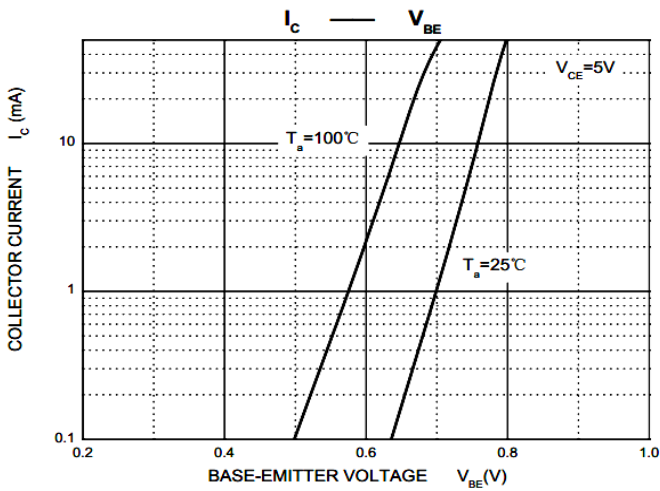
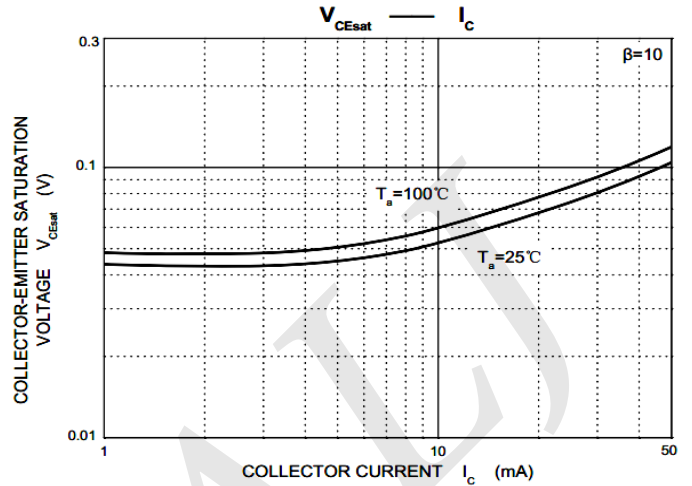
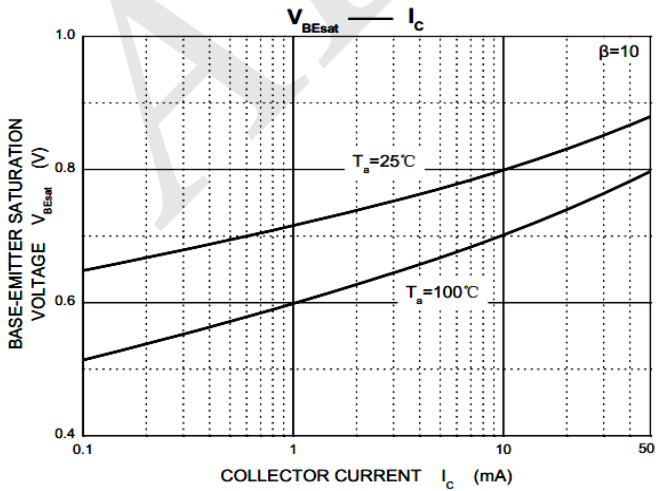
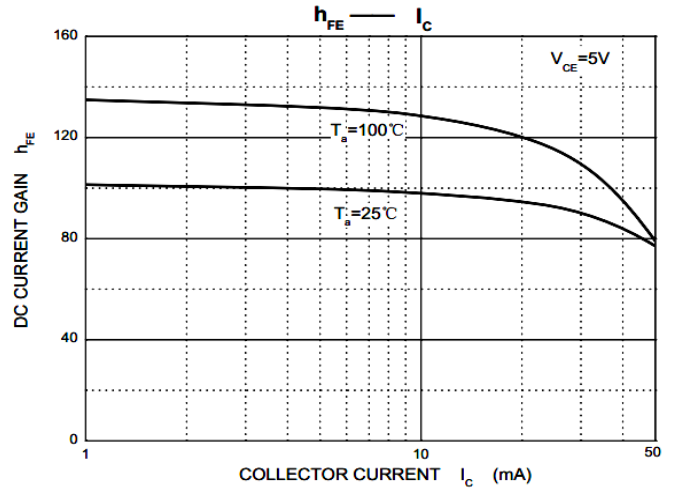
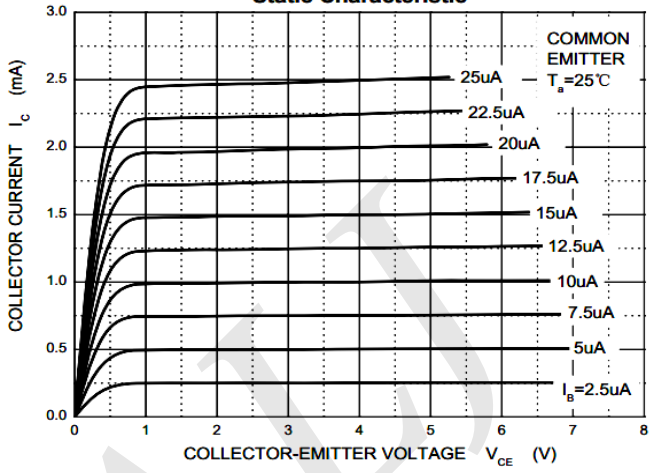
Symbol	Parameter	Value	Unit
V_{CBO}	Collector Base Voltage	30	V
V_{CEO}	Collector Emitter Voltage	15	V
V_{EBO}	Emitter Base Voltage	5	V
I_c	Collector Current -Continuous	50	mA
P_c	Collector Power Dissipation	200	mW
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55 ~ +150	$^\circ\text{C}$
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	625	$^\circ\text{C/W}$

Electrical Characteristics ($T_a=25^\circ\text{C}$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_c = 100\mu\text{A}, I_E = 0$	30			V
$V_{(BR)CEO}^*$	Collector-emitter breakdown voltage	$I_c = 1\text{mA}, I_B = 0$	15			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E = 10\mu\text{A}, I_c = 0$	5			V
I_{CBO}	Collector cut-off current	$V_{CB} = 12\text{V}, I_E = 0$			50	nA
I_{CEO}	Collector cut-off current	$V_{CE} = 12\text{V}, I_B = 0$			100	nA
I_{EBO}	Emitter cut-off current	$V_{EB} = 3\text{V}, I_c = 0$			100	nA
h_{FE}	DC current gain	$V_{CE} = 5\text{V}, I_c = 1\text{mA}$	100		200	
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_c = 10\text{mA}, I_B = 1\text{mA}$			0.5	V
$V_{BE(sat)}$	Base-emitter saturation voltage	$I_c = 10\text{mA}, I_B = 1\text{mA}$			1.4	V
f_t	Transition frequency	$V_{CE}=5\text{V}, I_c=5\text{mA}, f=400\text{MHz}$		800		MHz

Typical Characteristics

Static Characteristic



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