



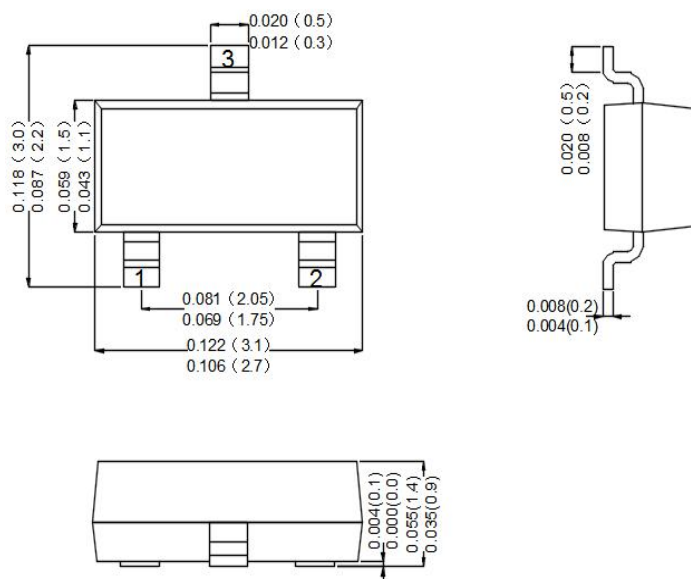
Features

- AM/FM Amplifier
- Local Oscillator of FM/VHF Tuner
- High Current Gain Bandwidth Product $f_T=1.1$ GHz(Typ)

SOT-23

Mechanical Data

- Case:Molded Plastic,SOT-23
- Epoxy:UL 94V-0 rate flame retardant
- Terminals:Plated Leads Solderable per MIL-STD-750,Method-2026.
- Marking: J8
- Mounting Position : Any.
- Equivalent Circuit:



Dimensions in inches and (millimeters)

Maximum Ratings Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Units
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CEO}	15	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current-Continuous	I_C	50	mA
Collector Power Dissipation	P_C	200	mW
Junction Temp erature	T_J	150	°C
Storage Temperature	T_{stg}	-55 to + 150	°C

**Electrical Characteristics** (Rating at 25°C ambient temperature unless otherwise specified.)

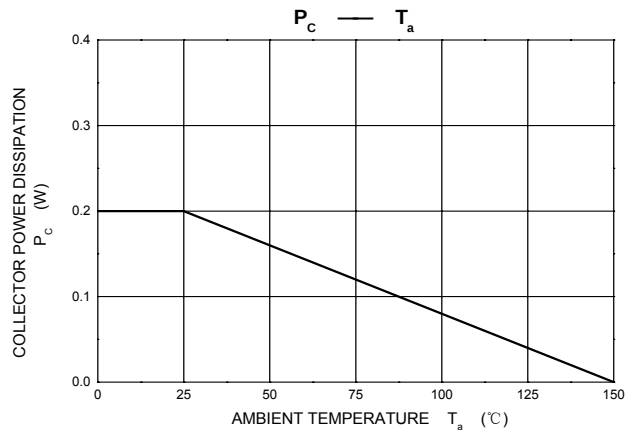
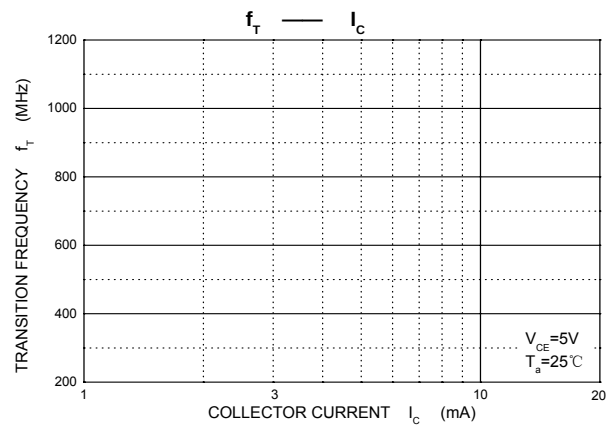
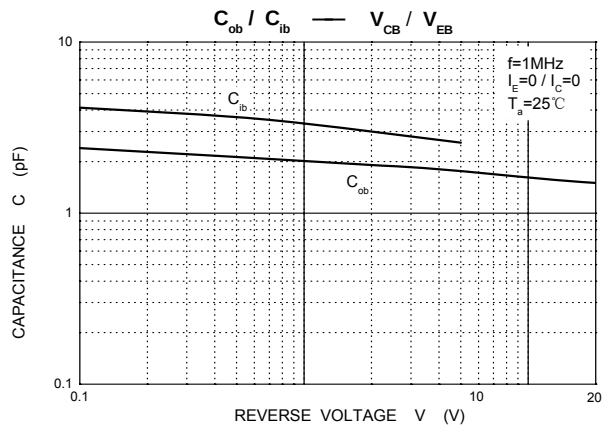
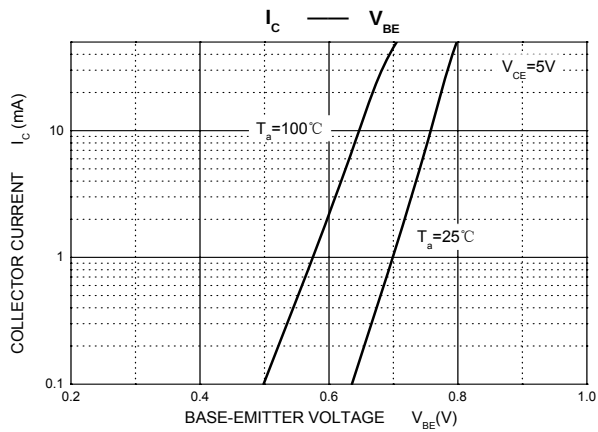
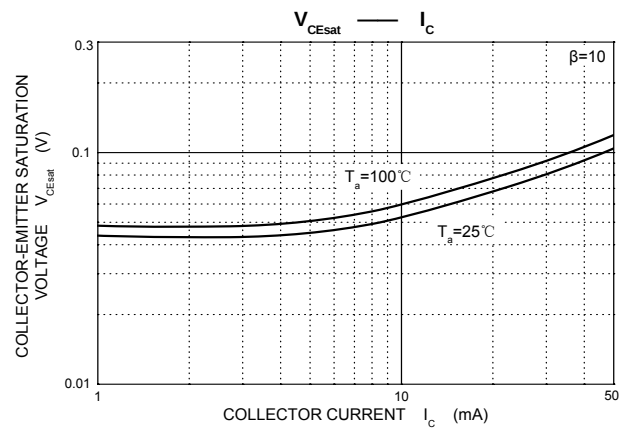
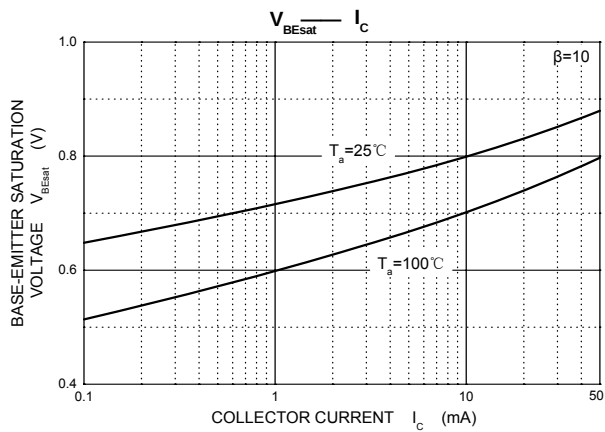
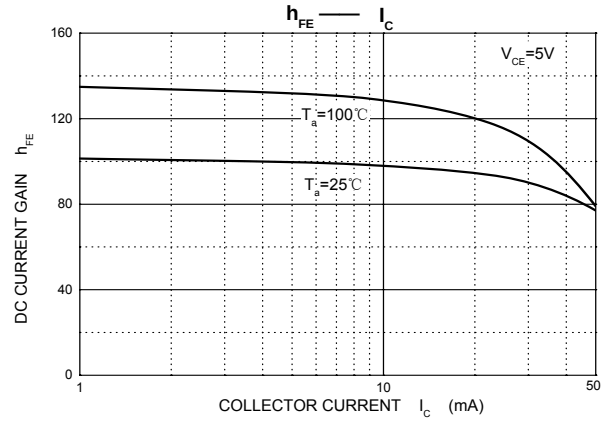
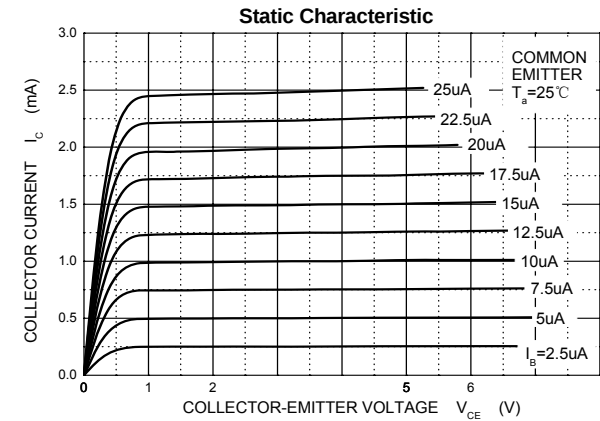
Parameter	Symbol	Test conditions	MIN	TYP	MAX	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = 100\mu A, I_E = 0$	30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 1mA, I_B = 0$	15			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_C = 100\mu A, I_C = 0$	5			V
Collector cut-off 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}	$V_{CE} = 5V, I_C = 1mA$	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



S9018

General Purpose NPN Transistor

Rating And Characteristic Curves





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