



SOT-23 Plastic-Encapsulate Transistors

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S9018 TRANSISTOR (NPN)

FEATURES

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

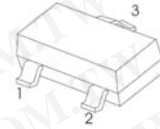
MARKING: J8

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	30	V
V _{CE0}	Collector-Emitter Voltage	15	V
V _{EB0}	Emitter-Base Voltage	5	V
I _c	Collector Current -Continuous	50	mA
P _c	Collector Power Dissipation	200	mW
F _{>5}	Thermal Resistance from Junction to Ambient	625	°C/W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C

SOT-23

1. BASE
2. EMITTER
3. COLLECTOR



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	70		190	
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		800		MHz

CLASSIFICATION OF h_{FE}

Rank	L	H
Range	70-105	105-190