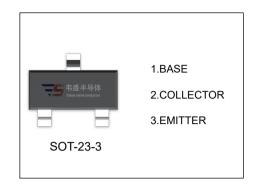


\$9018 TRANSISTOR (NPN)

FEATURES

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



MAXIMUM RATINGS (T_a=25°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	
Ic	Collector Current -Continuous	50	mA	
Pc	Collector Power Dissipation	200	mW	
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	625	°C/W	
T_J, T_stg	Operation Junction and Storage Temperature Range	-55-150	℃	

ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	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		200	
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 hFE

Rank	L	Н
Range	70-100	100-200



