

S9018 NPN Transistors

General description

SOT-23 Plastic-Encapsulate Transistors

FEATURES

• AM/FM Amplifier, Local Oscillator of FM/VHF Tuner

High Current Gain Bandwidth Product

SOT-23

1. BASE

2. EMITTER





MARKING: J8

Maximum Ratings & Thermal Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Unit	
V сво	Collector-Base Voltage	30	V	
VCEO	Collector-Emitter Voltage	15	V	
V EBO	Emitter-Base Voltage	5	V	
Ic	Collector Current -Continuous	50	mA	
Pc	Collector Power Dissipation	200	mW	
5ș-\$	Thermal Resistance from Junction to Ambient	625	°C/W	
TJ,Tstg	Operation Junction and Storage Temperature Range	-55-150	${\mathbb C}$	

Electrical Characteristics T_A = 25°C unless otherwise noted

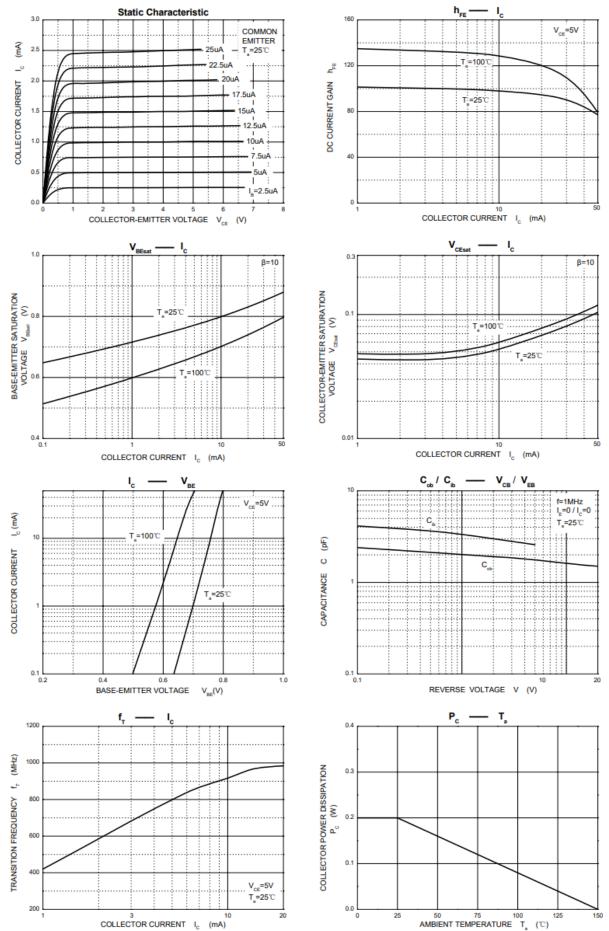
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	I _C = 100μA, I _E =0	30			V
Collector-emitter breakdown voltage	V(BR)CEO	Ic= 1mA, I _B =0	15			V
Emitter-base breakdown voltage	V(BR)EBO	I _E =100μA, I _C =0	5			V
Collector cut-off current	Ісво	V _{CB} =12V, I _E =0			0.05	μA
Collector cut-off current	Iceo	V _{CE} =12V, I _B =0			0.1	μA
Emitter cut-off current	Гево	V _{EB} = 3V, I _C =0			0.1	μA
DC current gain	hFE(1)	V _{CE} =5V, I _C = 1mA	70		200	
Collector-emitter saturation voltage	VCE(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⊤	V _{CE} =5V, I _C = 5mA f=400MHz		800		MHz

CLASSIFICATION OF hfe(1)

Rank	L	Н
Range	70-100	100-200

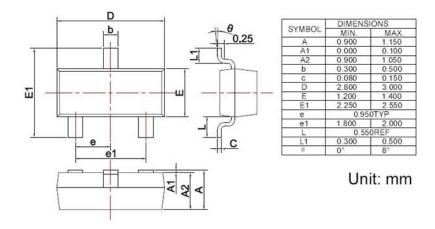


Typical characteristics

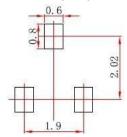




SOT-23 PACKAGE OUTLINE Plastic surface mounted package



Recommended land dimensions for SOT-23 diode. Electrode patterns for PCBs



Note:

- 1.Controlling dimension: in millimeters.
 2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



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