

Features

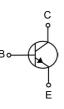
- AM/FM Amplifier, Local Oscillator of FM/VHF Tuner
- High Current Gain Bandwidth Product



SOT-23

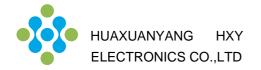
Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
S9018	SOT-23	J8	3000



Maxmim Ratings (Ta=25 unless otherwise noted)

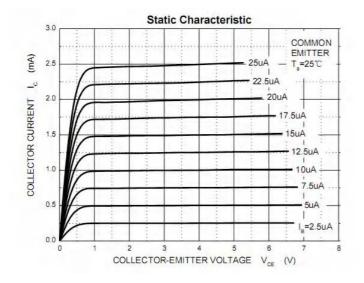
Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V _{CBO}	30	V
Collector-Emitter Voltage	V _{CEO}	15	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _c	50	mA
Collector Power Dissipation	P _c	200	mW
Thermal Resistance From Junction To Ambient	R _{oJA}	625	°C/W
Junction Temperature	T _j	150	℃
Storage Temperature	T _{stg}	-55∼+150	℃

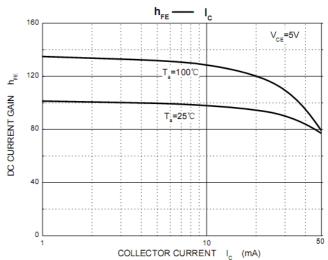


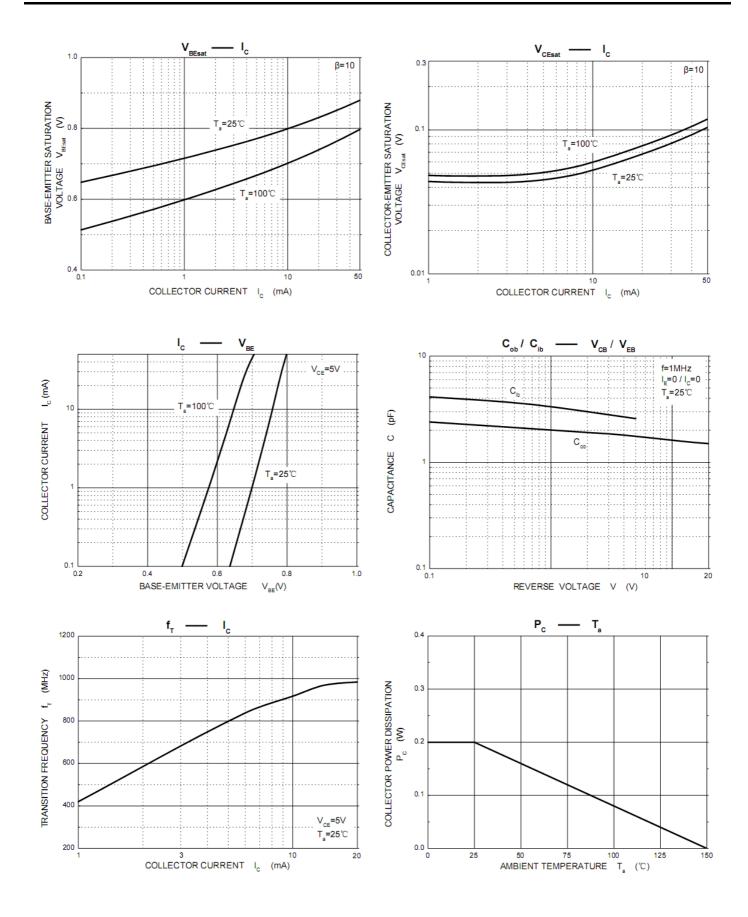
Electrcal Charcteristics (T_a=25 unless otherwise specified)

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	μΑ
Collector cut-off current	I _{CEO}	V _{CE} =12V, I _B =0			0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 3V, I _C =0			0.1	μΑ
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⊤	V _{CE} =5V, I _C = 5mA f=400MHz	800			MHz

Typical Characteristics

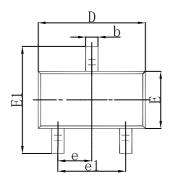


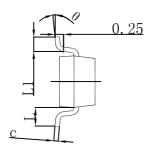


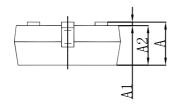




SOT-23 Package Outline Dimensions

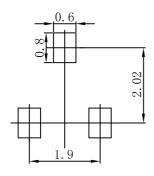






Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

SOT-23 Suggested Pad Layout



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

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