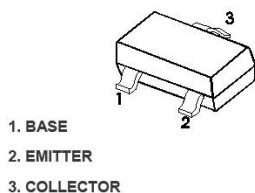


SOT-23



特征 Features

- Suitable for AF-Driver stages and low power output stages

机械数据 Mechanical Data

- SOT-23 Small Outline Plastic Package
- Epoxy UL: 94V-0
- Mounting Position: Any

极限值和温度特性(TA = 25°C 除非另有规定)

Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

参数 Parameters	符号 Symbol	数值 Value	单位 Unit
Collector-Base Voltage	V _{CBO}	-60	V
Collector-Emitter Voltage	V _{CEO}	-45	V
Emitter -Base Voltage	V _{EBO}	-5	V
Collector Current-Continuous	I _C	-800	mA
Collector Power Dissipation	P _C	300	mW
Junction Temperature	T _j	-55-+150	°C
Storage Temperature	T _{stg}	-55-+150	°C
Thermal resistance from junction to ambient	R _{θJA}	417	°C/W

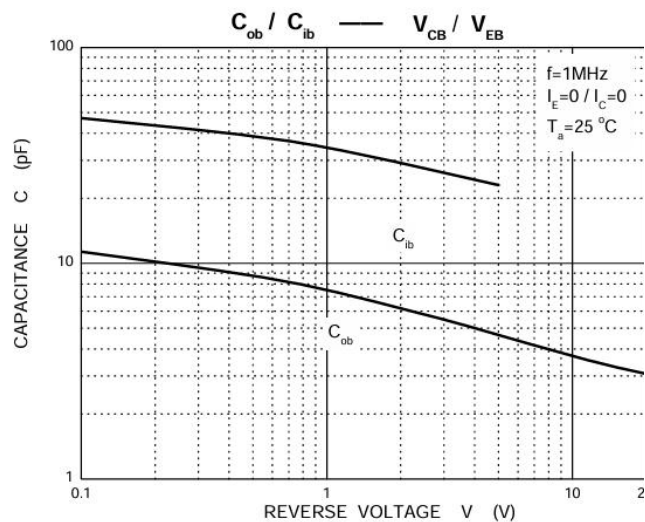
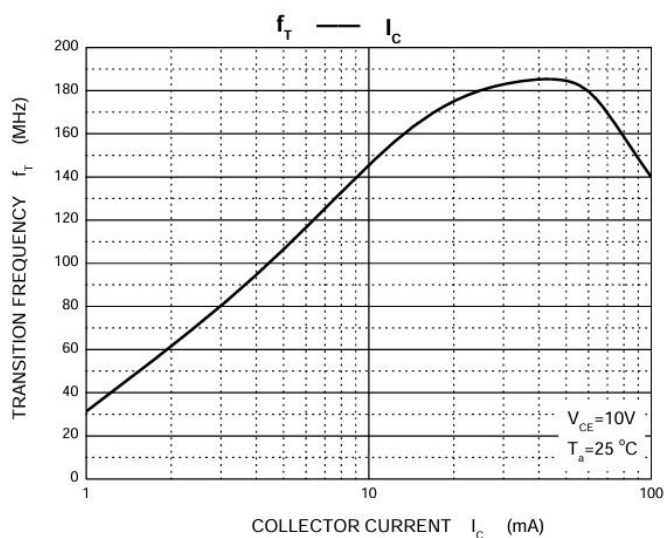
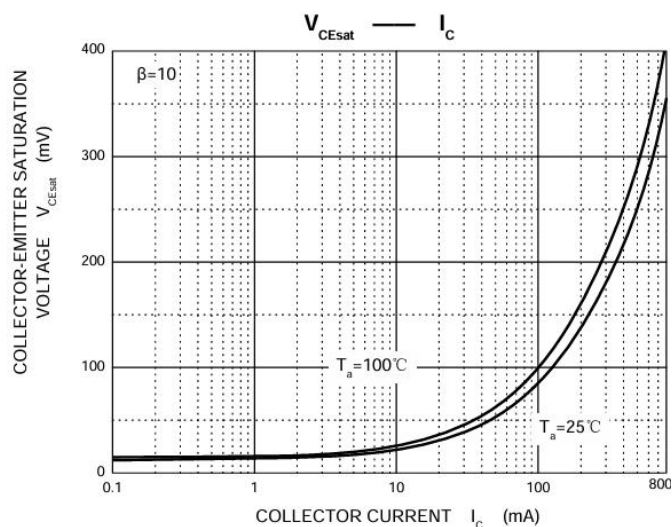
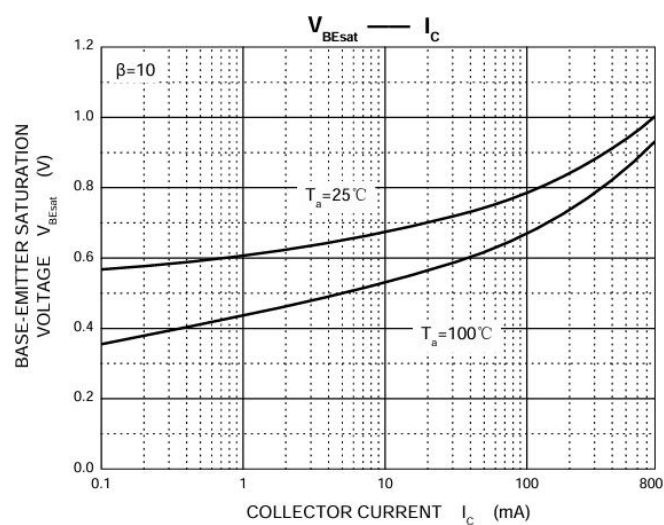
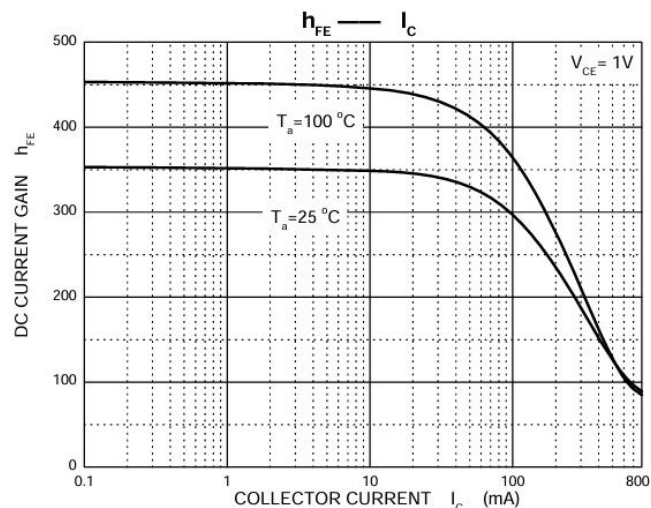
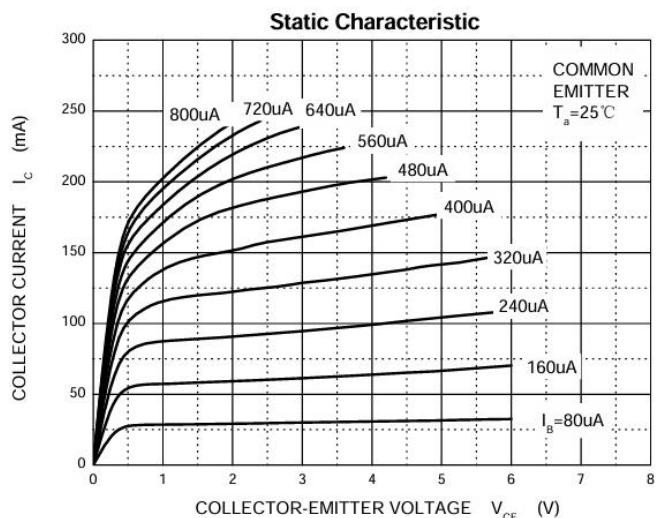
电特性 (TA = 25°C 除非另有规定)

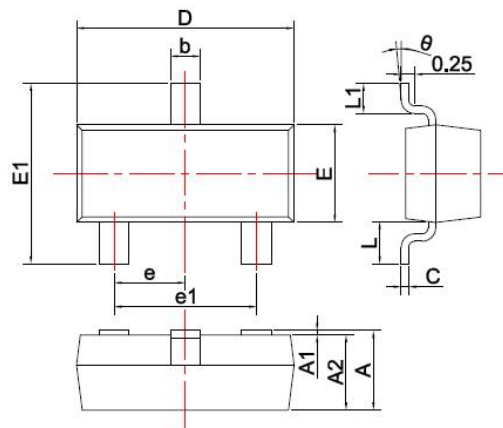
Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

参数 Parameter	符号 Symbols	测试条件 Test Condition	界限 Limits			单位 Unit
			Min	Typ	Max	
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-10uA, I _E =0	-60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-100uA, I _B =0	-45			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100uA, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-45V, I _E =0			-20	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-4V, I _C =0			-20	nA
DC current gain	h _{FE}	V _{CE} =-1V, I _C =-100mA	85		600	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-800mA, I _B =-80mA			-0.5	V
Transition frequency	f _T	V _{CE} =-5V, I _C =-50mA, f=20MHz		100		MHz

CLASSIFICATION OF h_{FE}(1)

RANK	CN68F
RANGE	100-250
Marking	68F



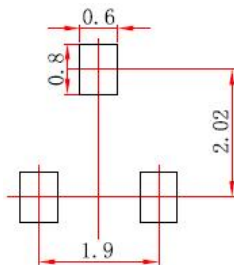


SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
θ	0°	8°

Unit: mm

焊盘设计参考Precautions: PCB Design

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



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

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