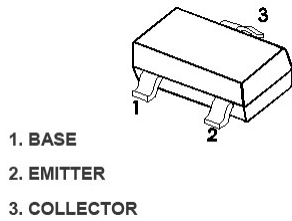


SOT-23

Marking: 2L
特征 Features

- 最大功率耗散 300mW; Power Dissipation of 300mW
- 高稳定性和可靠性。High Stability and High Reliability

机械数据 Mechanical Data

- 封装: SOT-23 封装 SOT-23 Small Outline Plastic Package
- 环氧树脂 UL 易燃等级 Epoxy UL: 94V-0
- 安装位置: 任意 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}	-160	V
Collector-Emitter Voltage	V _{CEO}	-150	V
Emitter -Base Voltage	V _{EBO}	-5	V
Collector Current-Continuous	I _C	-600	mA
Collector Power Dissipation	P _C	300	mW
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55-+150	°C
Thermal resistance From junction to ambient	R _{θJA}	416	°C/W

电特性 (TA = 25°C 除非另有规定)

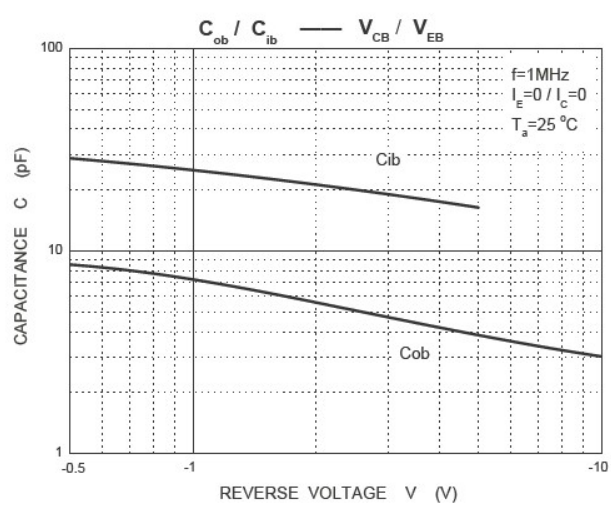
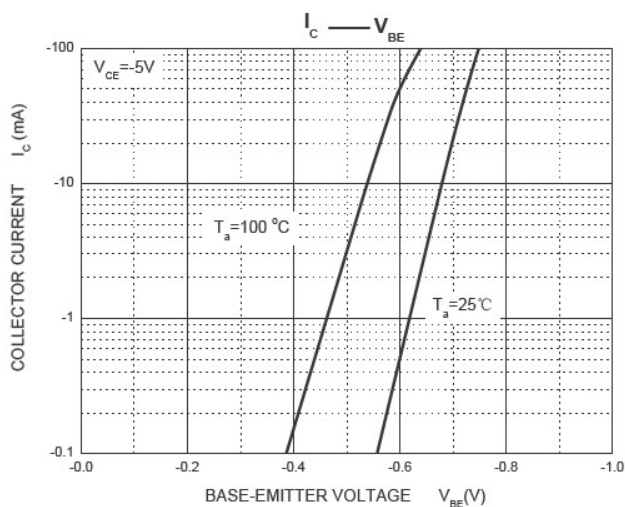
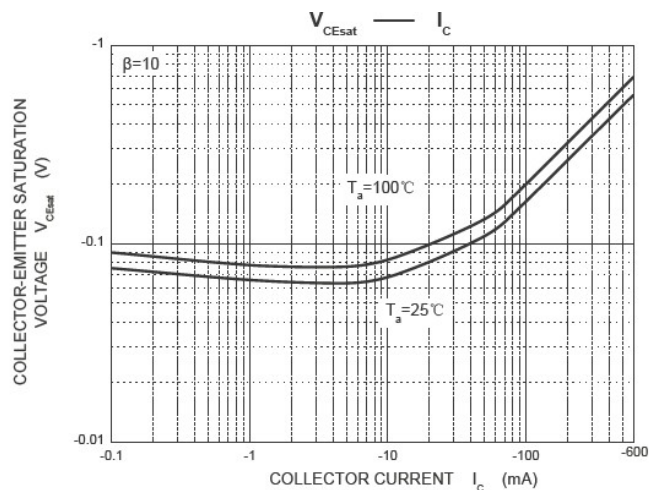
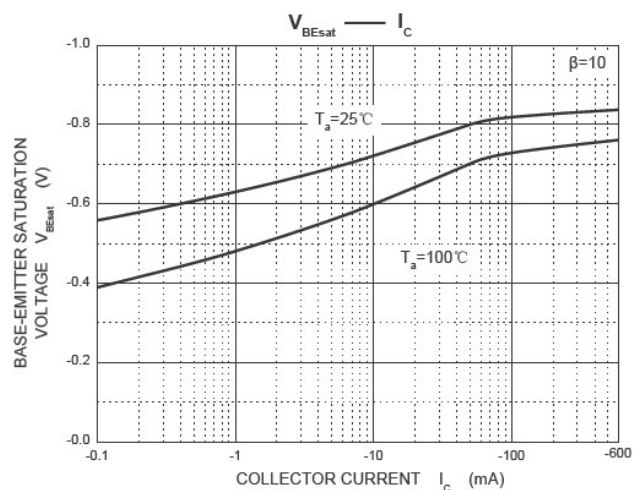
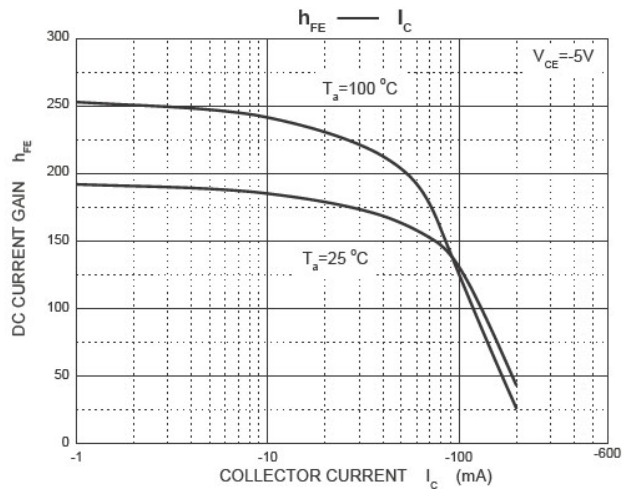
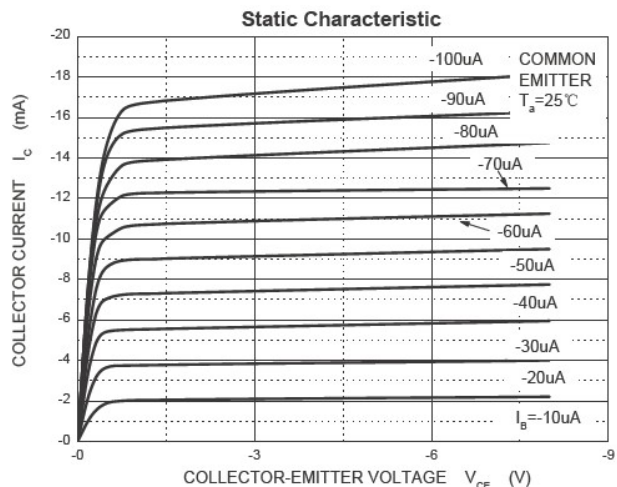
Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

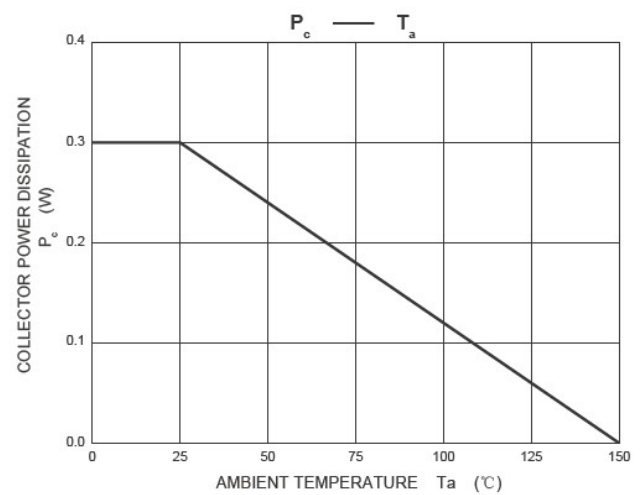
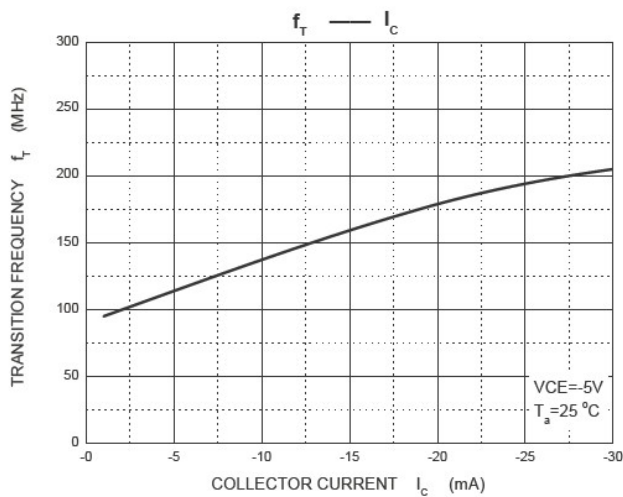
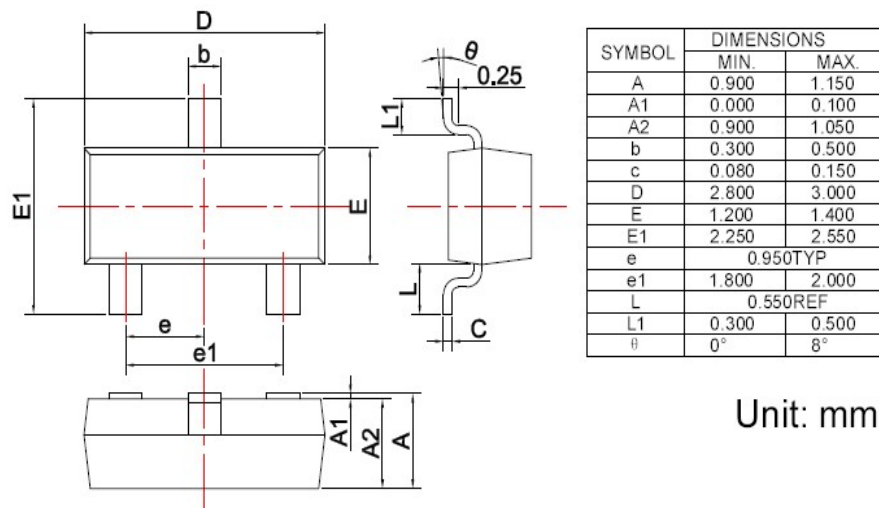
参数 Parameter	符号 Symbols	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
Collector-base breakdown voltage	V(BR)CBO	IC=-100uA, IE=0	-160		V
Collector-emitter breakdown voltage	V(BR)CEO *	IC=-1mA, IB=0	-150		V
Emitter-base breakdown voltage	V(BR)EBO	IE=-10uA, IC=0	-5		V
Collector cut-off current	ICBO	VCB=-120V, IE=0		-100	nA
Emitter cut-off current	IEBO	VEB=-4V, IC=0		-100	nA
DC current gain	hFE(1) *	VCE=-5V, IC=-1mA	80		
	hFE(2) *	VCE=-5V, IC=-10mA	100	300	
	hFE(3) *	VCE=-5V, IC=-50mA	30		
Collector-emitter saturation voltage	VCE(sat)1 *	IC=-10mA, IB=-1mA		-0.2	V
	VCE(sat)2 *	IC=-50mA, IB=-5mA		-0.5	V
Base -emitter saturation voltage	VBE(sat)1 *	IC=-10mA, IB=-1mA		-1.00	V
	VBE(sat)2 *	IC=-50mA, IB=-5mA		-1.00	V
Transition frequency	f _T	VCE=-5V, IC=10mA, f=30MHz	100		MHz

*Pulse test: pulse width ≤ 300us, duty cycle ≤ 2. 0%

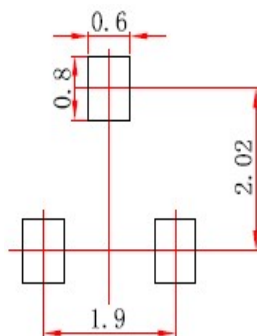
CLASSIFICATION OF hFE(2)

HFE	100-300	
RANK	L	H
RANGE	100-200	200-300

Typical characteristics



SOT-23 PACKAGE OUTLINE Plastic surface mounted package

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: $\pm 0.05mm$.
3. The pad layout is for reference purposes only.

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