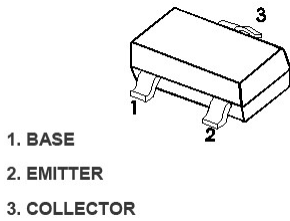


SOT-23

SOT-23 贴片塑封三极管
SOT-23 Plastic-Encapsulate Transistors



Marking: CR•

特征 Features

- 与 A733 配对; Complementary to A733
- 最大功率耗散 200mW; Power Dissipation of 200mW
- 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}	60	V
Collector-Emitter Voltage	V _{CEO}	50	V
Emitter -Base Voltage	V _{EBO}	5	V
Collector Current-Continuous	I _C	150	mA
Collector Power Dissipation	P _C	200	mW
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55-+150	°C
Thermal resistance From junction to ambient	R _{θJA}	625	°C/W

电特性 (TA = 25°C 除非另有规定)

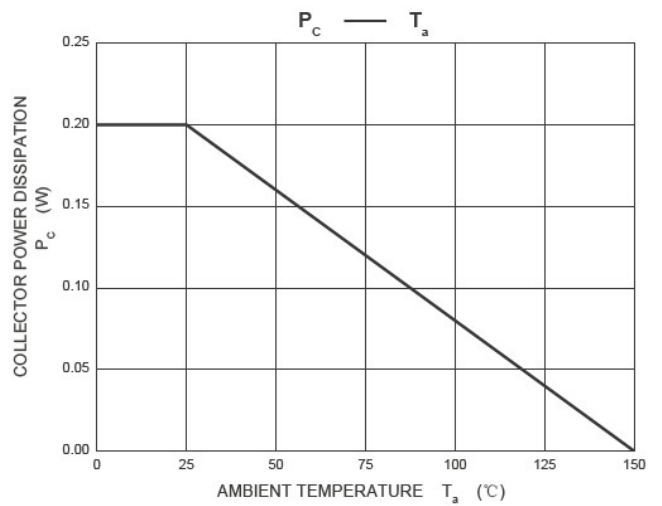
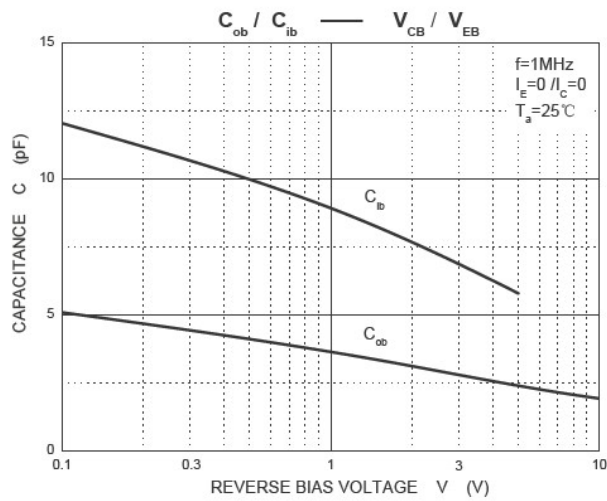
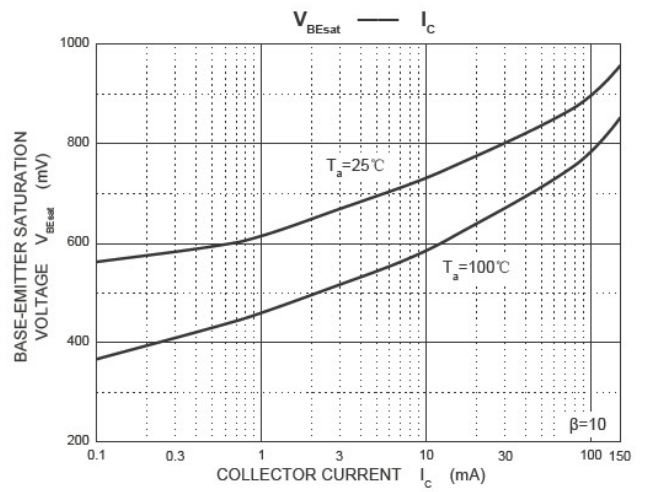
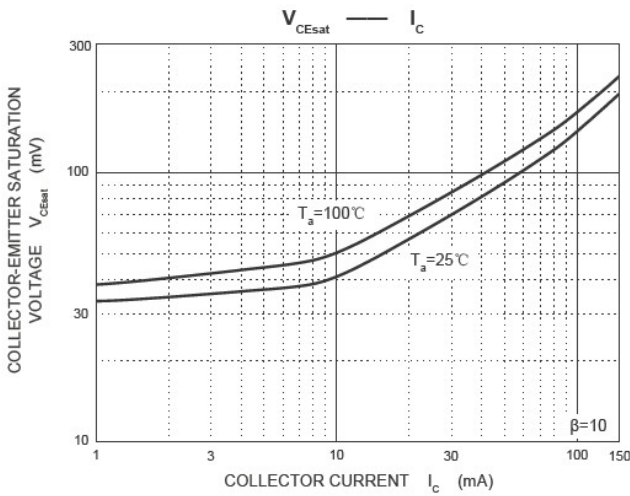
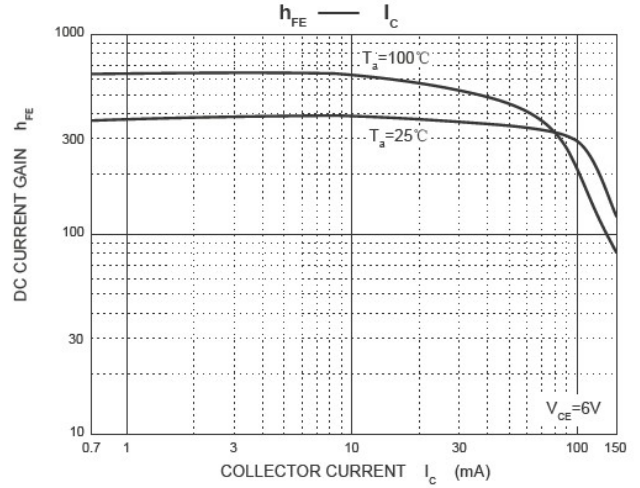
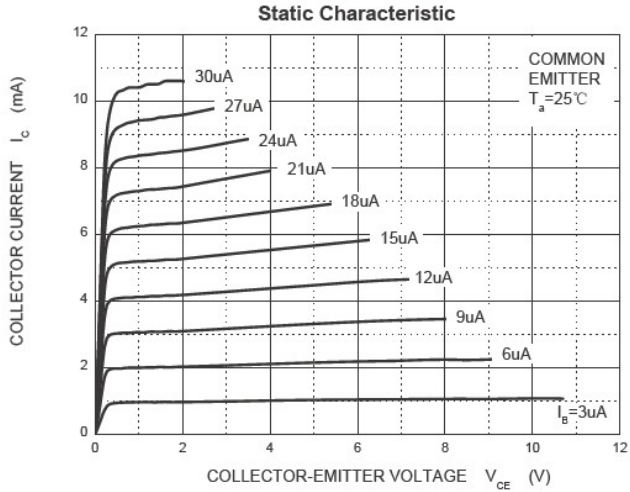
Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

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	IC=100uA, IE=0	60			V
Collector-emitter breakdown voltage	V(BR)CEO	IC=1mA, IB=0	50			V
Emitter-base breakdown voltage	V(BR)EBO	IE=100uA, IC=0	5			V
Collector cut-off current	ICER	VCE=55V, R=100MΩ			100	nA
Collector cut-off current	ICBO	VCE=60V, IE=0			100	nA
Emitter cut-off current	IEBO	VEB=5V, IC=0			100	nA
DC current gain	hFE(1)	VCE=6V, IC=1mA	130		400	
	hFE(2)	VCE=6V, IC=0.1mA	40			
Collector-emitter saturation voltage	VCE(sat)	IC=100mA, IB=10mA			0.30	V
Base -emitter saturation voltage	VBE(sat)	IC=100mA, IB=10mA			1.00	V
Transition frequency	f _t	VCE=6V, IC=10mA, f=30MHz	150			MHz
Collector output capacitance	C _{ob}	VCE=10V, IE=0, f=1MHz			3.0	pF
Noise figure	NF	VCE=6V, IC=0.1mA, Rg=10kΩ, f=1KMHz		4	35	dB

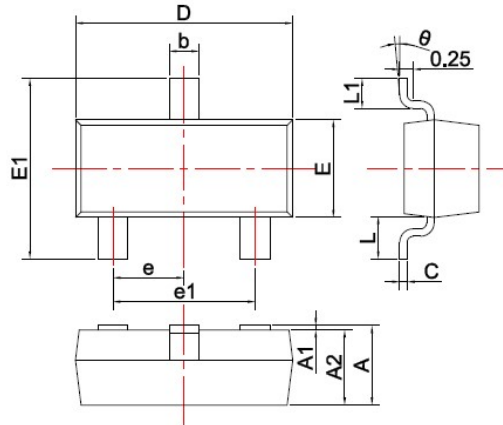
CLASSIFICATION OF hFE(1)

HFE	130-400	
RANK	L	H
RANGE	130-200	200-400

Typical characteristics



SOT-23 PACKAGE OUTLINE Plastic surface mounted package

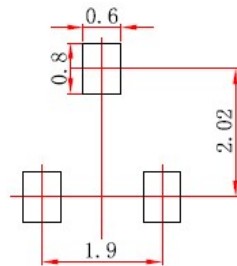


SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
θ	0°	8°

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: ±0.05mm.
 3. The pad layout is for reference purposes only.