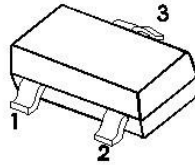


SOT-23

SOT-23 Plastic-Encapsulate Transistors



1. BASE

2. EMITTER

3. COLLECTOR

MARKING:2TY

特征 Features

- 与S8050配对;Complementary to S8050
- 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
- Device meets MSL 1 requirements

极限值和温度特性(TA = 25℃ 除非另有规定)

Maximum Ratings & Thermal Characteristics (TA=25℃ unless otherwise specified)

参数 Parameters	符号 Symbol	数值 Value	单位 Unit
Collector-Base Voltage	VCBO	-40	V
Collector-Emitter Voltage	VCEO	-25	V
Emitter -Base Voltage	VEBO	-5	V
Collector Current-Continuous	IC	-500	mA
Collector Power Dissipation	PC	300	mW
Junction Temperature	Tj	150	℃
Storage Temperature	TSTG	-55-+150	℃
Thermal resistance from junction to ambient	RθJA	417	℃/W

电特性 Electrical Characteristics (TA=25℃ unless otherwise specified)

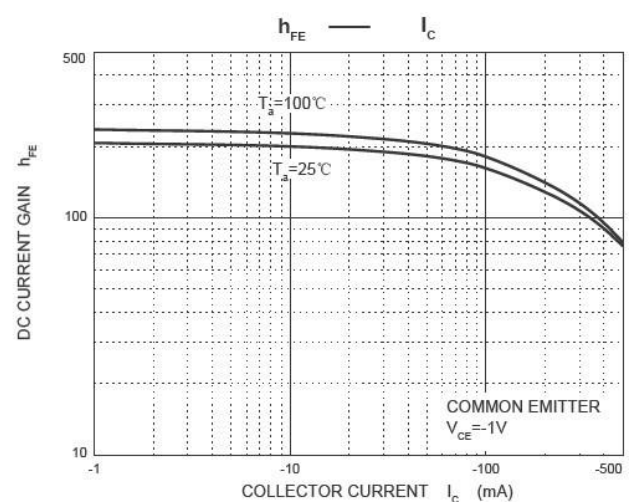
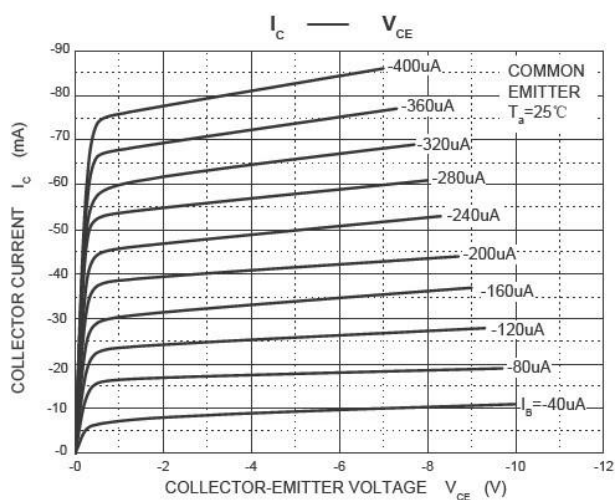
参数 Parameter	符号 Symbols	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
Collector-base breakdown voltage	V(BR)CBO	IC=-100uA, IE=0	-40		V
Collector-emitter breakdown voltage	V(BR)CEO	IC=-1mA, IB=0	-25		V
Emitter-base breakdown voltage	V(BR)EBO	IE=-100uA, IC=0	-5		V
Collector cut-off current	ICEO	VCE=-20V, IB=0		-100	nA
Collector cut-off current	ICBO	VCB=-40V, IE=0		-100	nA

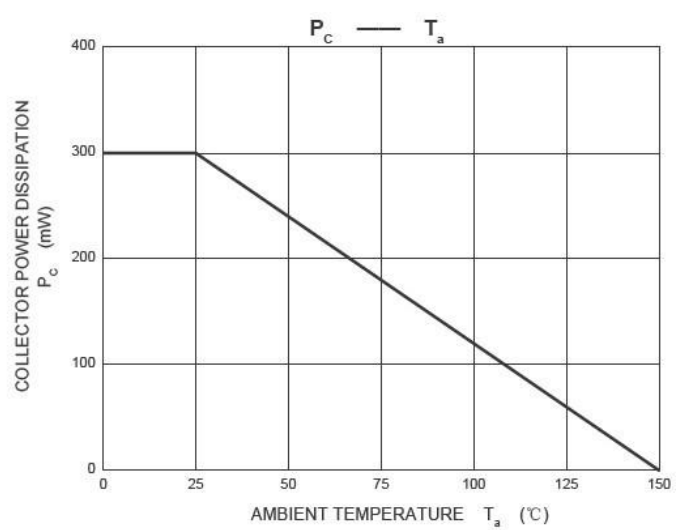
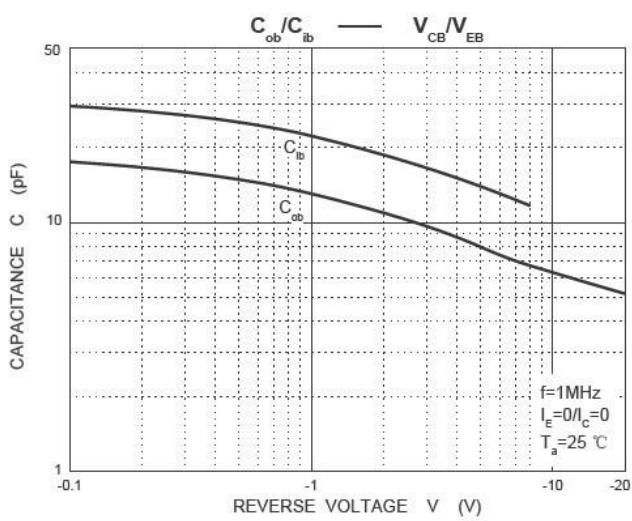
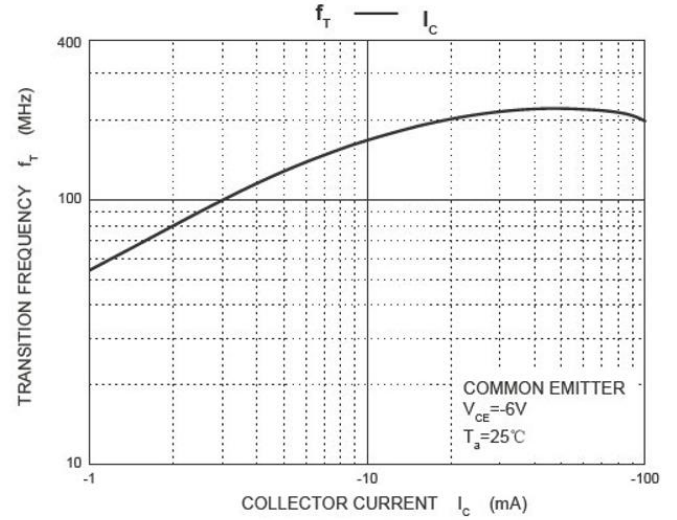
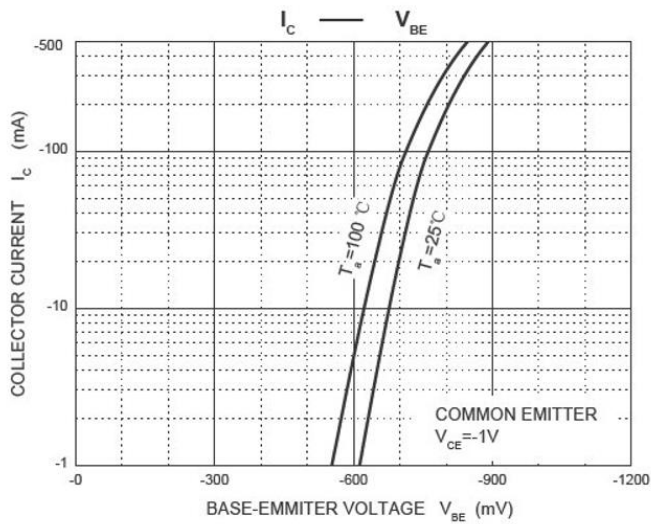
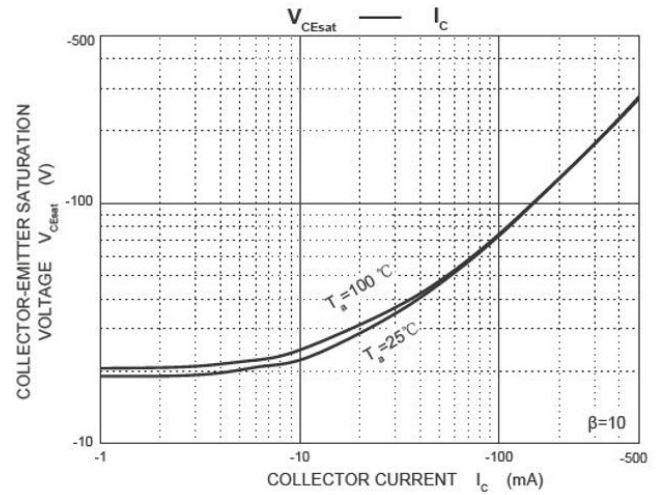
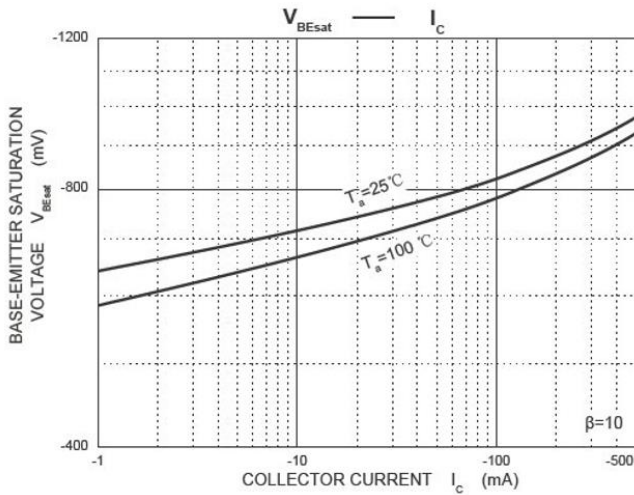
Emitter cut-off current	I_{EBO}	$V_{EB}=-3V, I_C=0$		-100	nA
DC current gain	$h_{FE}(1)$	$V_{CE}=-1V, I_C=-50mA$	120	400	
	$h_{FE}(2)$	$V_{CE}=-1V, I_C=-500mA$	50		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-500mA, I_B=-50mA$		-0.60	V
Base -emitter saturation voltage	$V_{BE(sat)}$	$I_C=-500mA, I_B=-50mA$		-1.20	V
Transition frequency	f_T	$V_{CE}=-6V, I_C=-20mA, f=30MHz$	150		MHz

CLASSIFICATION OF $h_{FE}(1)$

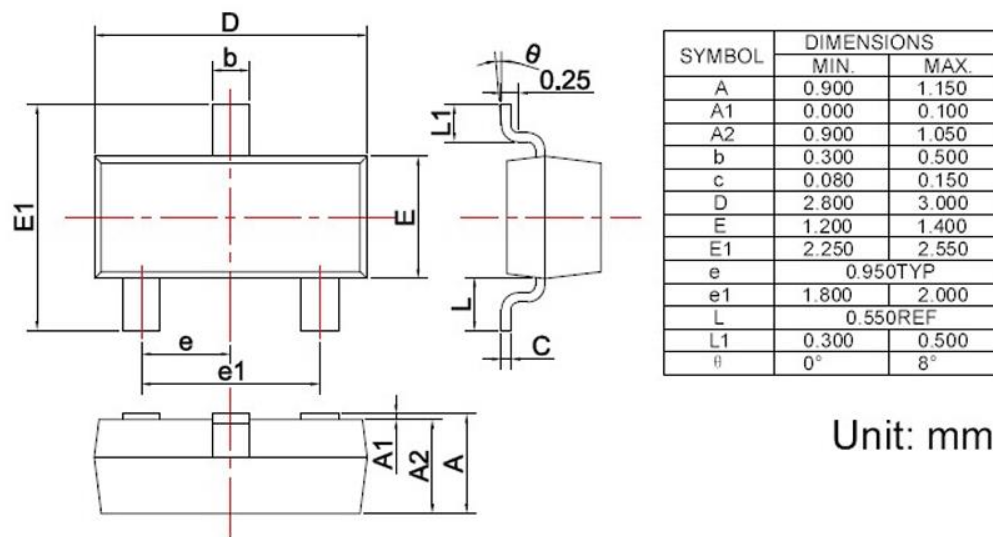
RANK	L	H	J
RANGE	120-200	200-350	300-400

Typical Performance Characteristics ($T_A=25^\circ C$ unless otherwise Specified)

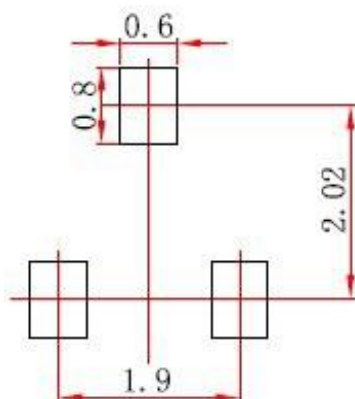




SOT-23 Package Outline Drawing



Suggested Land Pattern



Note:

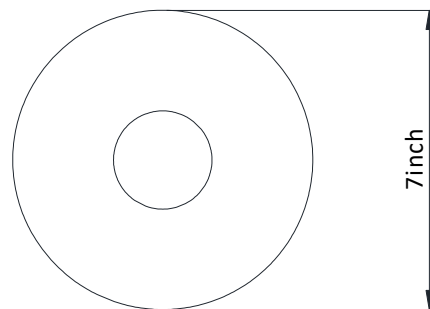
1. Controlling dimension: In millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

Ordering Information

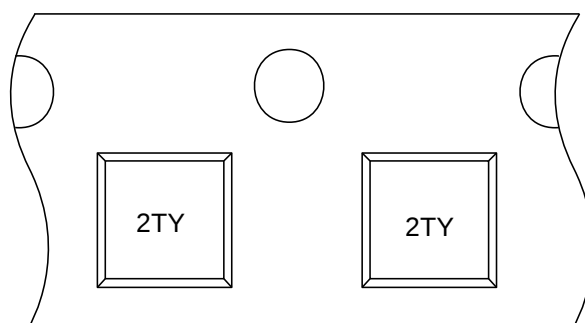
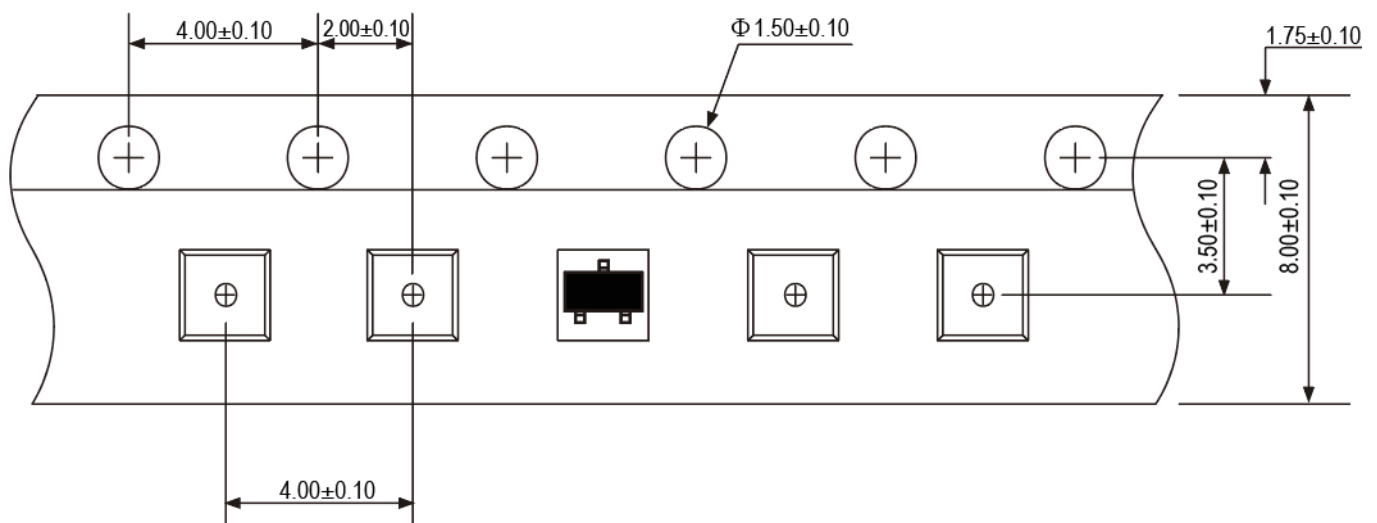
Part Number	Shipping	Reel Size
S8550	3000/Tape & Reel	7 inch

Tape and Reel Information

Reel Dimensions



Tape Dimensions



User Direction of Feed

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