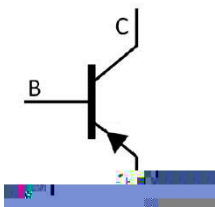


High current, low voltage complementary pair with BC817W.

Λφ̃ α = ε / Equivalent Circuit



PIN 1 χ Emitter PIN 2 χ Base PIN 3 χ Collector

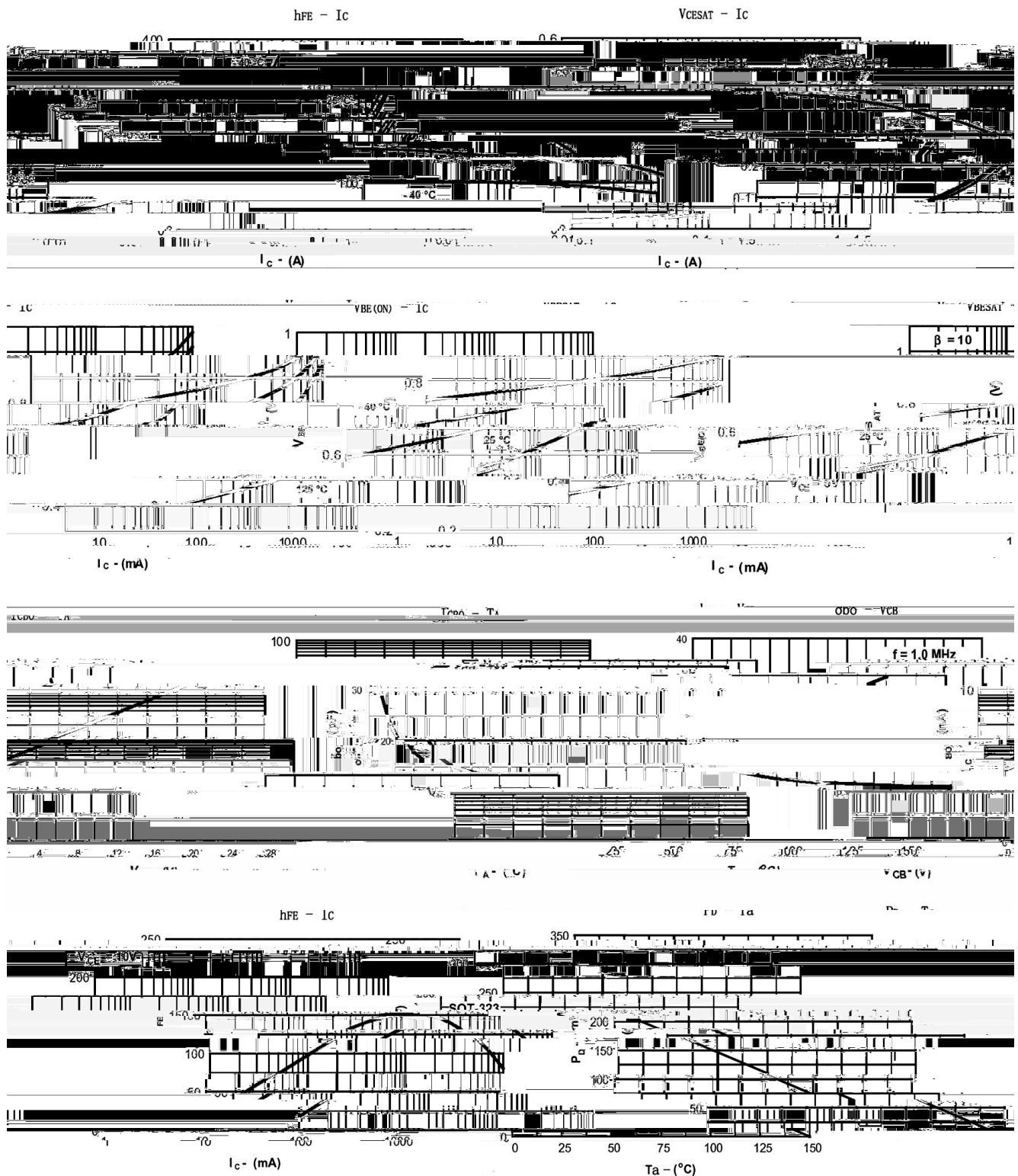
绝对最大额定值 / Absolute Maximum Ratings(Ta=25℃)

参数 Parameter	符号 Symbol	额定值 Rating	单位 Unit
Collector to Base Voltage	V_{CBO}	-50	V
Collector to Emitter Voltage	V_{CEO}	-45	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-500	mA
Peak Collector Current - Continuous	I_{CM}	-1.0	A
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 ~ 150	

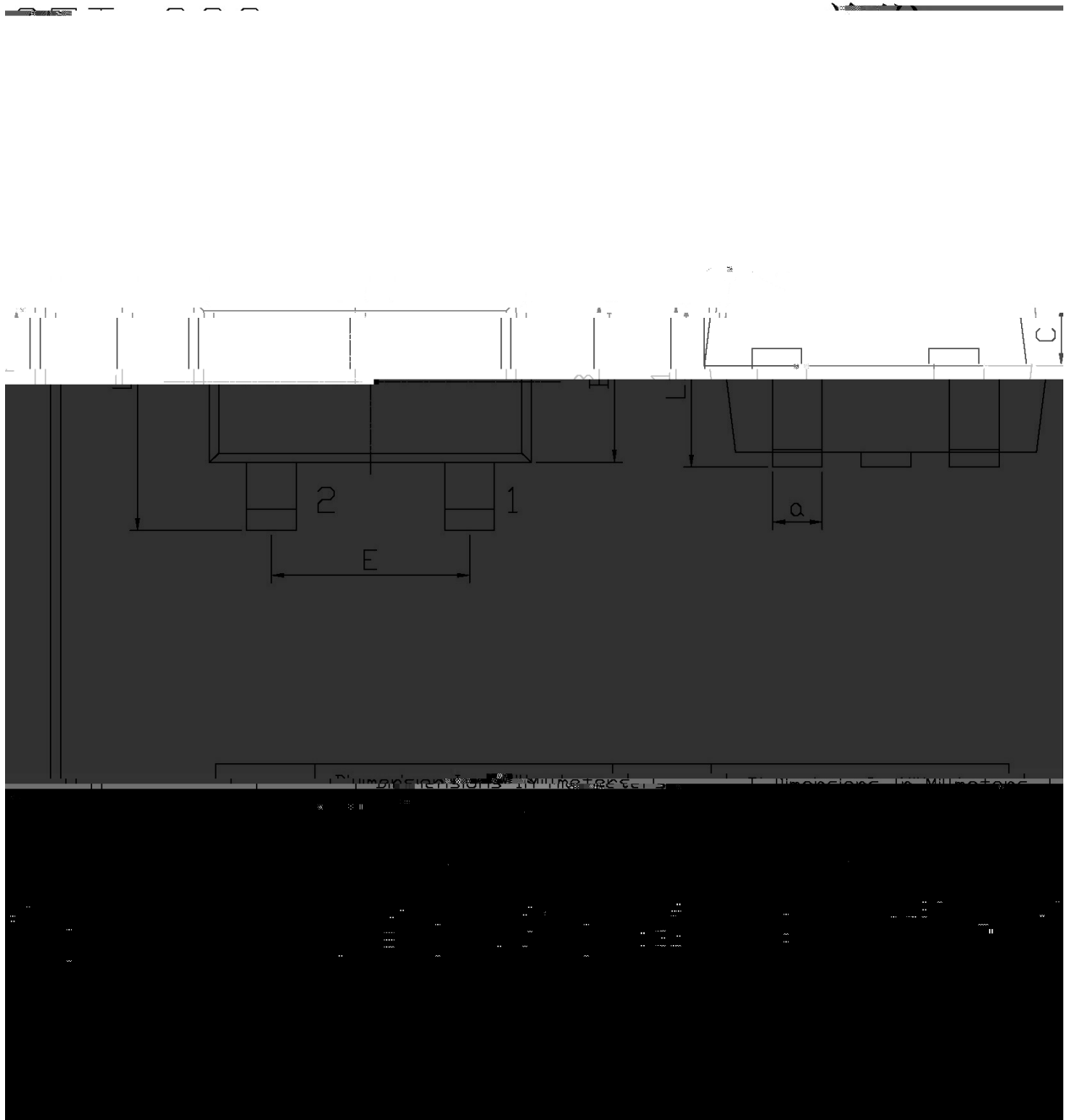
直流特性 / DC Characteristics

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-20V$ $I_E=0$			-0.1	μA
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=-5.0V$ $I_C=0$			-0.1	μA
DC Current Gain	h_{FE}	$V_{CE}=-1.0V$ $I_C=-100mA$	100		600	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-500mA$ $I_B=-50mA$			-0.7	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=-1.0V$ $I_C=-500mA$			-1.2	V
Transition Frequency	f_T	$V_{CE}=-5V$ $I_C=-10mA$ $f=100MHz$	80			MHz
Collector Capacitance	C_C	$V_{CB}=-10V$ $I_E=I_C=0$ $f=1.0MHz$		10		pF

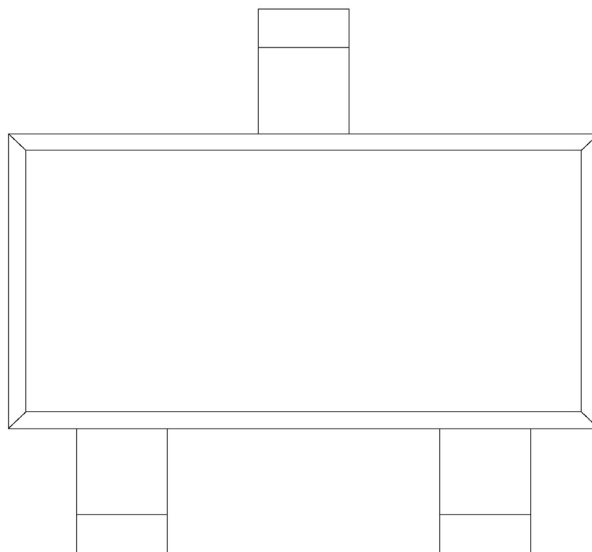
Electrical Characteristic Curve



⌘ È Ò Ì f / Package Dimensions

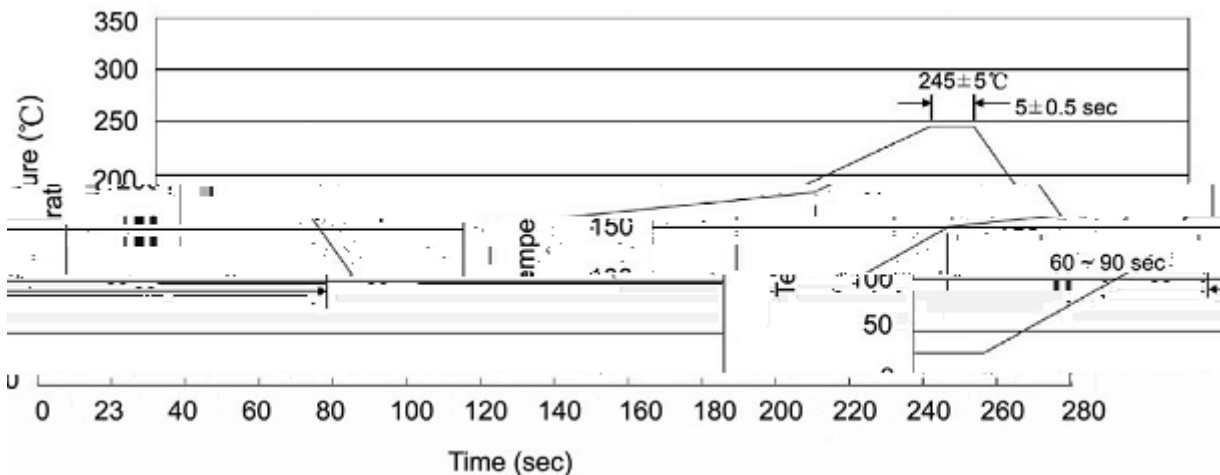


4. 1. 1 / Marking Instructions



2. 1. 1

Thermal Characteristics / 热特性



测试方法

1. 预加热: 25~150 °C, Time: 60~90sec;
2. 峰值温度: 245±5 °C, Duration: 5±0.5sec;
3. 冷却速度: 2~10 °C/sec.

Note:

1. Preheating: 25~150 °C, Time: 60~90sec.
2. Peak Temp.: 245±5 °C, Duration: 5±0.5sec.
3. Cooling Speed: 2~10 °C/sec.

Resistance to Soldering Heat Test Conditions / 焊接热阻测试条件

温度: 260±5 °C, Time: 10±1 sec.

Packaging SPEC. / 封装规格

包装形式 / REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOT-323	3,000	10	30,000	6	180,000	7 × 8	180×120×180	390×385×205

Notices / 注意事项