

### 描述 / Descriptions

SOT23-6 塑封封装 PNP 开关晶体管。PNP Power Transistor in a SOT23-6 Plastic Package.

### 特征 / Features

高增益性能,极低的饱和电压。

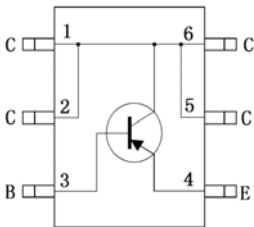
Exceptional high gain, very low saturation voltage.

### 用途 / Applications

用于便携设备的电源管理, 开关稳压器在电池充电器的应用。

Power management in portable equipments, switching regulator in battery charger applications.

### 内部等效电路 / Equivalent Circuit



### 引脚排列 / Pinning



### 印章代码 / Marking

$h_{FE}$ Range	>100
Marking	H818B

**极限参数 / Absolute Maximum Ratings(Ta=25°C)**

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Collector to Base Voltage	$V_{CBO}$	-30	V
Collector to Emitter Voltage	$V_{CEO}$	-30	V
Emitter to Base Voltage	$V_{EBO}$	-5.0	V
Collector Current - Continuous	$I_C$	-3.0	A
Collector Peak Current	$I_{CM}$	-6	A
Base Current	$I_B$	-0.2	A
Base Peak Current	$I_{BM}$	-0.5	A
Total Dissipation	$P_{tot}(T_C=25^\circ C)$	1.2	W
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-65 ~ 150	°C

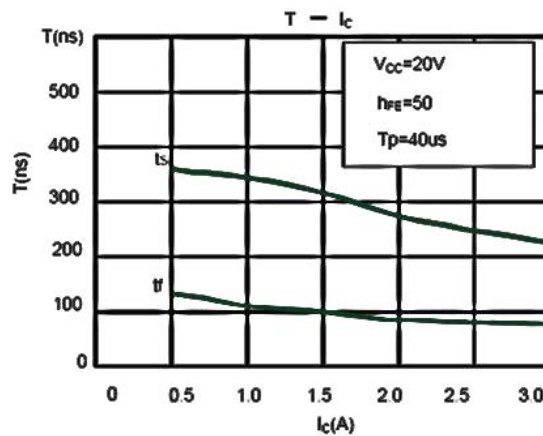
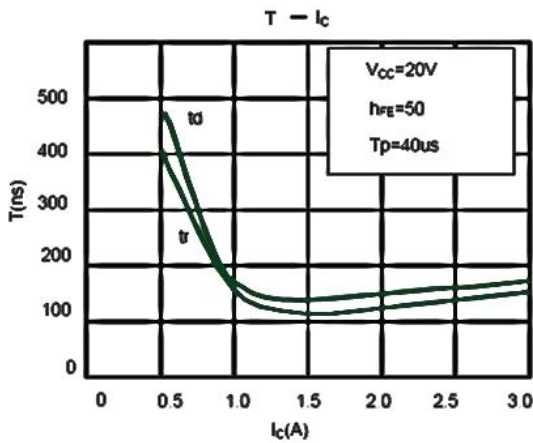
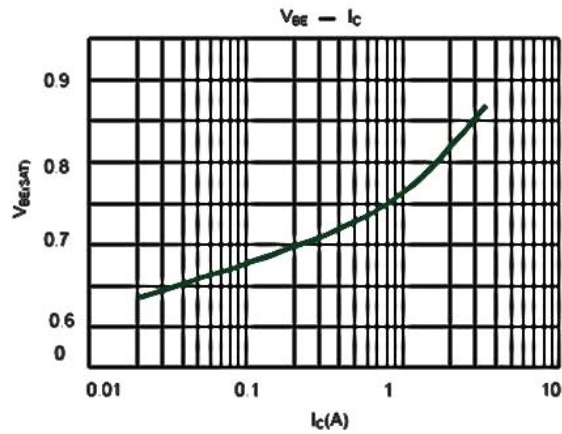
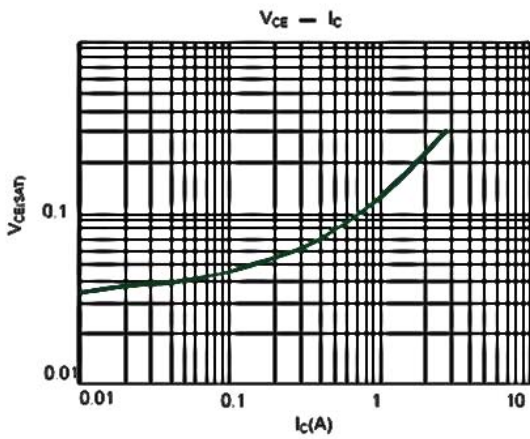
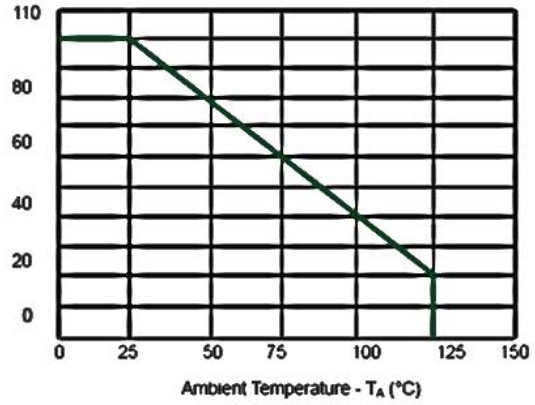
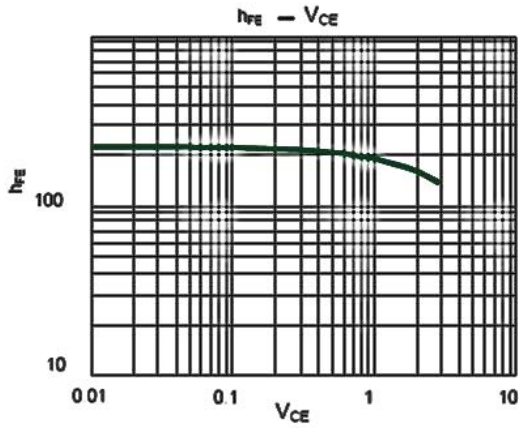
**电性能参数 / Electrical Characteristics(Ta=25°C)**

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	$I_{CBO}$	$V_{CB}=-30V \quad I_E=0$			-0.1	$\mu A$
		$V_{CB}=-30V \quad I_E=0$ $T_C=125^\circ C$			-20	$\mu A$
Emitter Base Cut-Off Current	$I_{EBO}$	$V_{EB}=-5.0V \quad I_C=0$			-0.1	$\mu A$
DC Current Gain <sub>(1)</sub>	* $h_{FE(1)}$	$V_{CE}=-1.0V \quad I_C=-0.5A$	100	300		
DC Current Gain <sub>(2)</sub>	* $h_{FE(2)}$	$V_{CE}=-3.0V \quad I_C=-2.5A$	100			
Collector-Emitter Breakdown Voltage	* $V_{(BR)CEO}$	$I_D=-10mA \quad I_B=0$	-30			V
Collector to Emitter Saturation Voltage <sub>(1)</sub>	* $V_{CE(sat)(1)}$	$I_C=-0.5A \quad I_B=-5.0mA$		-0.075	-0.15	V
Collector to Emitter Saturation Voltage <sub>(2)</sub>	* $V_{CE(sat)(2)}$	$I_C=-2.0A \quad I_B=-20mA$		-0.21	-0.5	V
Base to Emitter Saturation Voltage	* $V_{BE(sat)}$	$I_C=-0.5A \quad I_B=-5.0mA$		-0.74	-1.1	V
Base-Emitter Voltage	* $V_{BE(ON)}$	$I_C=-0.5A \quad V_{CE}=-2.0V$		-0.71	-1.1	V

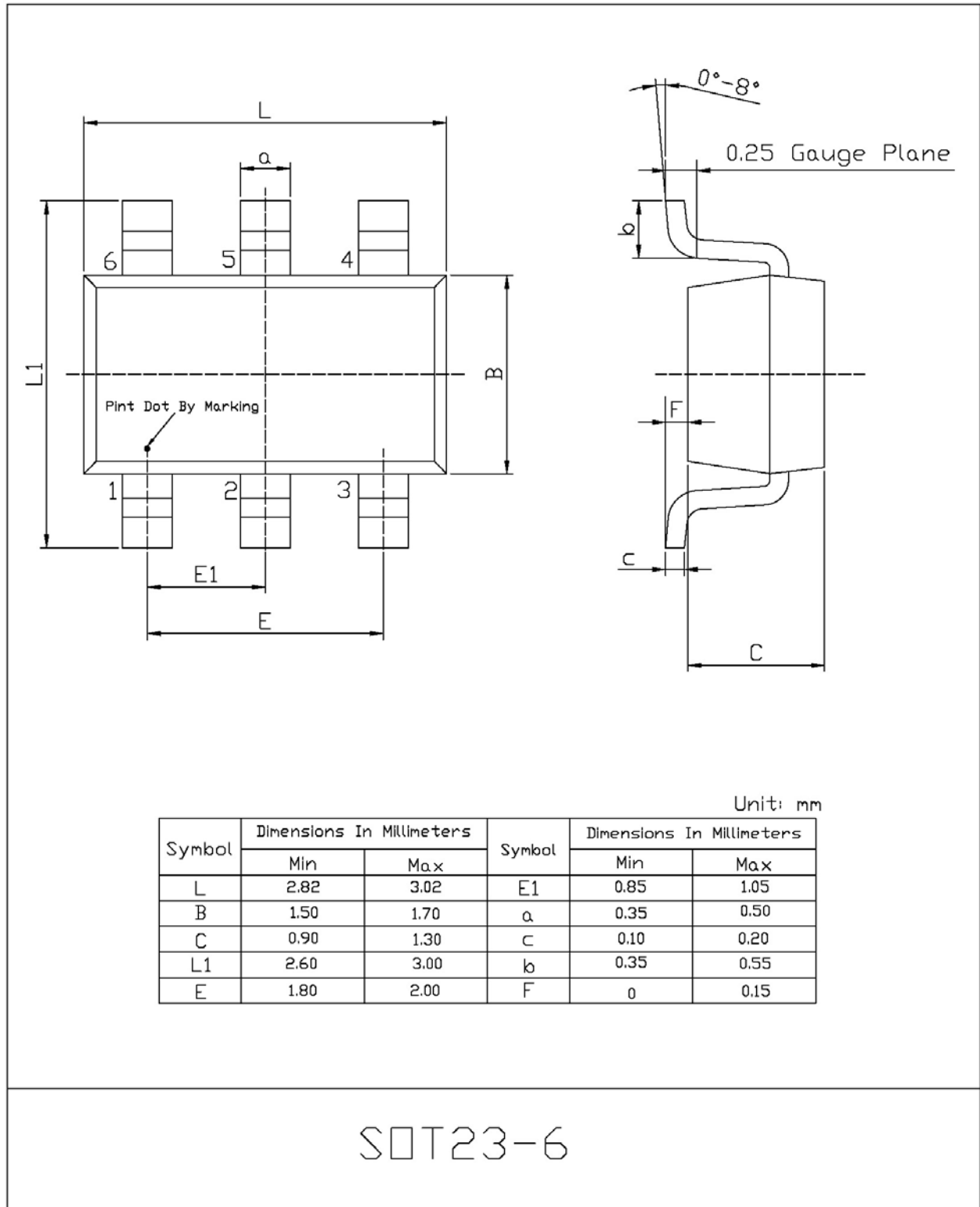
\*脉冲测试：脉冲持续时间 = 300 $\mu s$ ，占空比 $\leq 1.5\%$ 。

\*Pulse Test: Pulse duration = 300 $\mu s$ , Duty Cycle  $\leq 1.5\%$ .

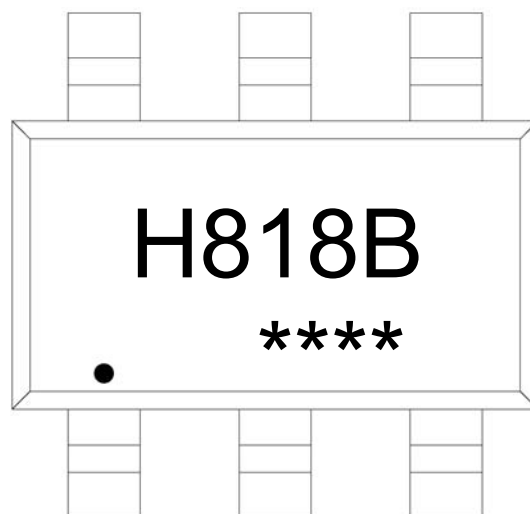
电参数曲线图 / Electrical Characteristic Curve



**外形尺寸图 / Package Dimensions**



印章说明 / Marking Instructions



说明：

H： 为公司代码

818B： 为产品型号代码

\*\*\*\*： 为生产批号代码，随生产批号变化。

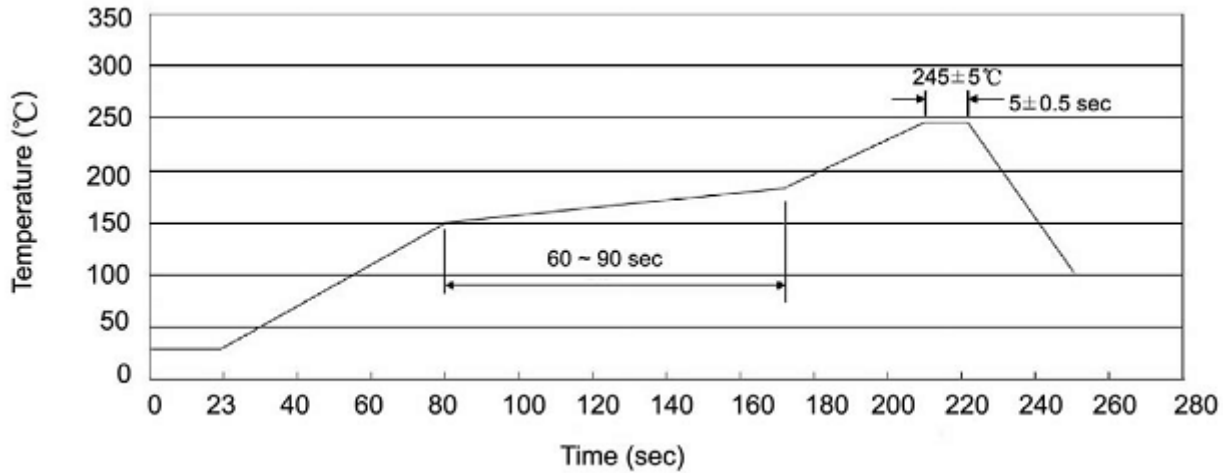
Note:

H: Company Code.

818B: Product Type Code

\*\*\*\*: Lot No. Code, code change with Lot No.

**回流焊温度曲线图(无铅) / Temperature Profile for IR Reflow Soldering(Pb-Free)**



说明：

- 1、预热温度 25~150℃，时间 60~90sec;
- 2、峰值温度 245±5℃，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2~10℃/sec.

Note:

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

**耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions**

温度：260±5℃      时间：10±1 sec.      Temp.:260±5℃      Time:10±1 sec

**包装规格 / Packaging SPEC.**

卷盘包装 / REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SOT23-5/6	3,000	10	30,000	4	120,000	7" ×8	210×205×205	445×230×435

**使用说明 / Notices**