

描述 / Descriptions

TO-126(R)塑封封装 NPN 半导体三极管。Silicon NPN transistor in a TO-126(R) Plastic Package.

特征 / Features

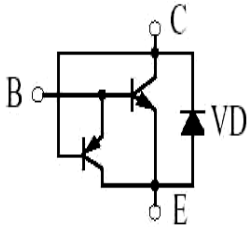
耐压高，快速转换。

High Voltage Capability High Speed Switching.

用途 / Applications

主要用于节能灯、日光灯电子镇流器及其它开关、振荡电路。

High frequency electronic lighting ballast applications, converters, inverters, switching regulators, etc.

内部等效电路 / Equivalent Circuit**引脚排列 / Pinning**

PIN1 : Base PIN 2 : Collector PIN 3 : Emitter

放大及印章代码 / h_{FE} Classifications & Marking

见印章说明 See Marking Instructions

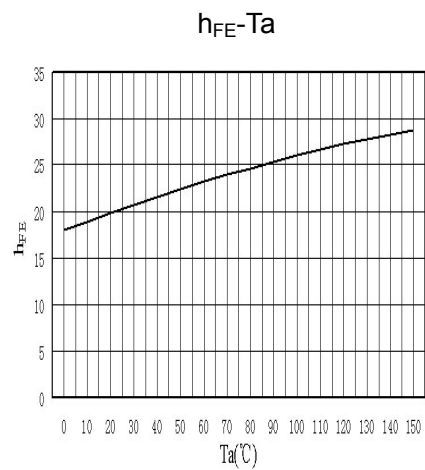
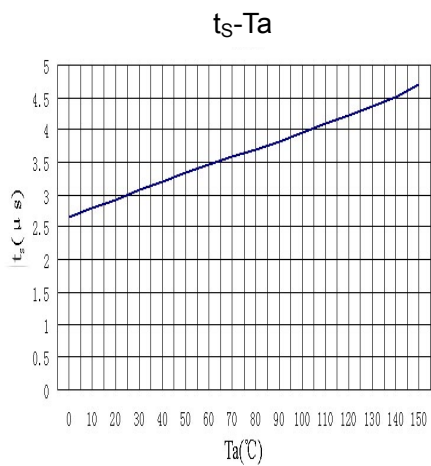
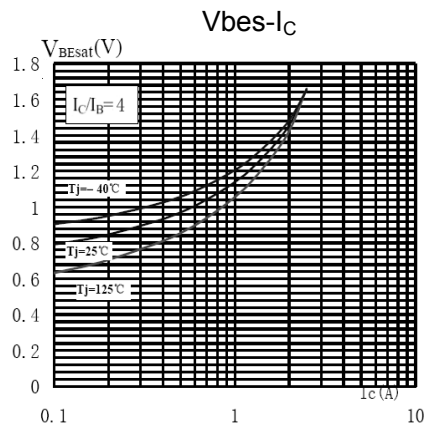
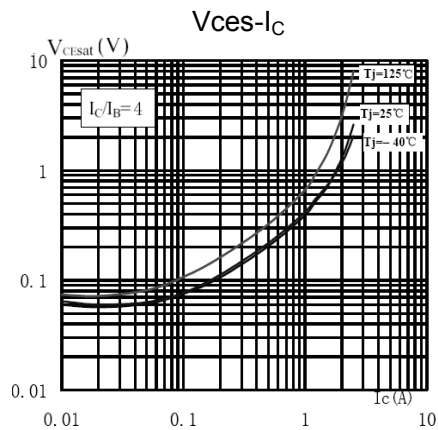
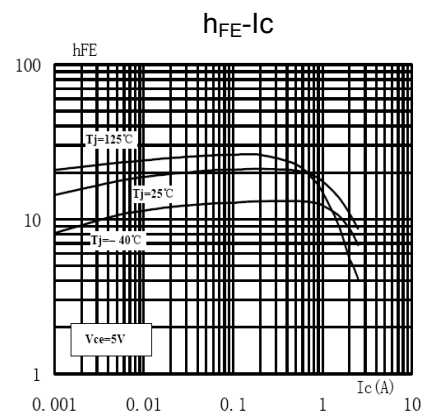
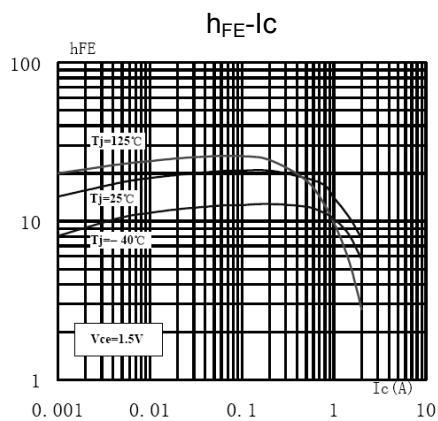
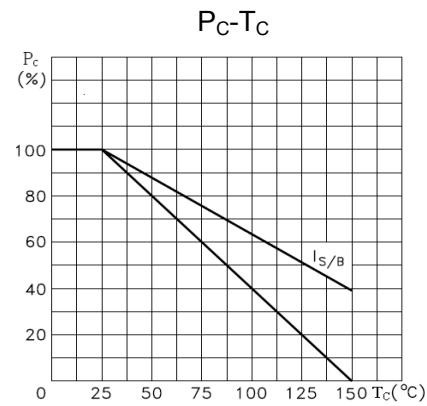
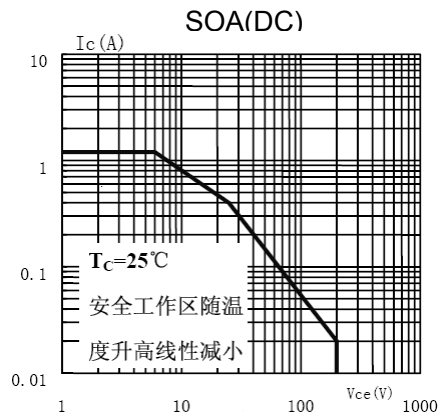
极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Collector to Base Voltage	V_{CBO}	400	V
Collector to Emitter Voltage	V_{CEO}	200	V
Emitter to Base Voltage	V_{EBO}	9.0	V
Collector Current - Continuous	I_C	1.2	A
Collector Power Dissipation	P_C	1.25	W
Collector Power Dissipation	$P_C(T_C=25^{\circ}\text{C})$	20	W
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^{\circ}\text{C}$

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 to Base Breakdown Voltage	V_{CBO}	$I_C=1\text{mA}$ $I_E=0$	400			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=10\text{mA}$ $I_B=0$	200			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=1\text{mA}$ $I_C=0$	9.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=400\text{V}$ $I_E=0$			0.1	mA
Collector cut-off current	I_{CEO}	$V_{CE}=200\text{V}$ $I_B=0$			0.1	mA
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=9.0\text{V}$ $I_C=0$			0.1	mA
DC Current Gain	h_{FE}	$V_{CE}=5.0\text{V}$ $I_C=200\text{mA}$	10		40	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=1\text{A}$ $I_B=250\text{mA}$			0.8	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=1\text{A}$ $I_B=250\text{mA}$			1.5	V
Transition Frequency	f_T	$V_{CE}=10\text{V}$ $I_C=100\text{mA}$ $f=1.0\text{MHz}$	5.0			MHz
Fall time	t_f	$V_{CE}=5\text{V}$ $I_C=100\text{mA}$ (UI9600)			0.6	μs
Storage time	t_s				4.0	μs

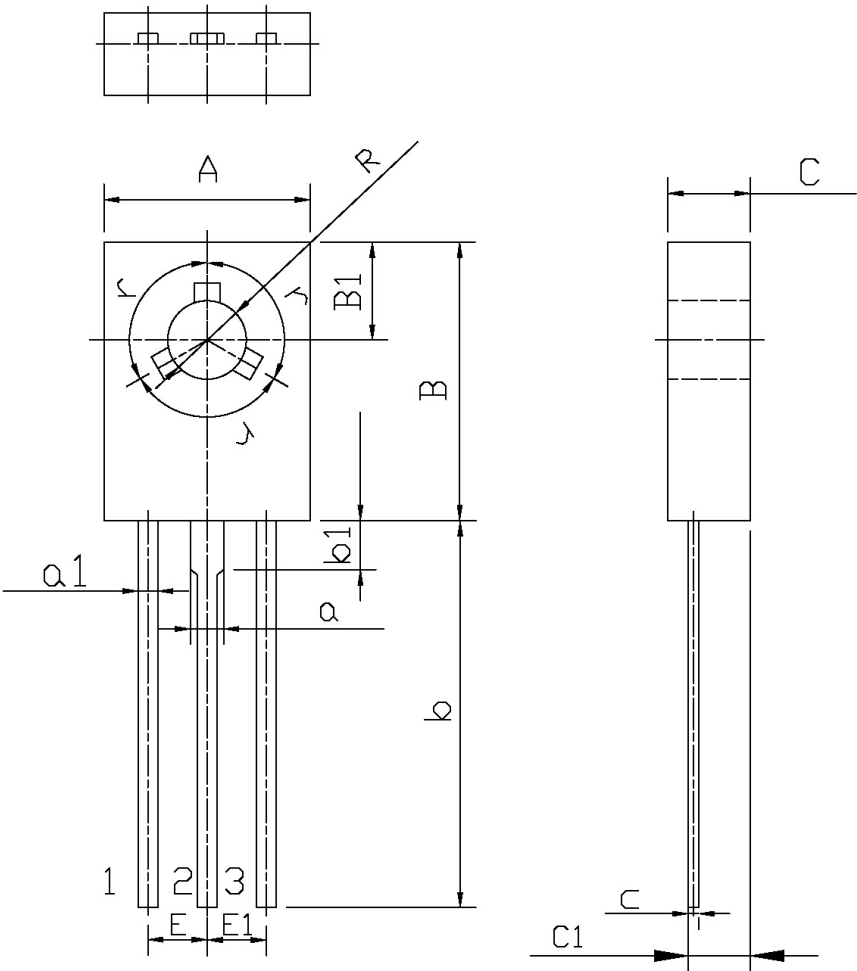
电参数曲线图 / Electrical Characteristic Curve



外形尺寸图 / Package Dimensions

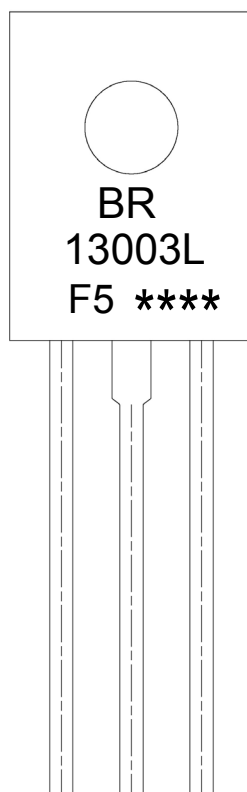
T□-126(R)

单位: mm



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	7.4	7.8	a1	0.66	0.86
B	10.6	11.0	E	2.1	2.5
B1	3.8	4.2	C	2.55	2.85
R	2.9	3.3	C1	1.60	1.80
b	14	16	c	0.3	0.6
b1	1.9		a	1.37	
E1	2.1	2.5	r	120°	

印章说明 / Marking Instructions



说明：

BR： 为公司代码

13003L： 为型号代码

F5： 为规格代码

****： 为生产批号代码，随生产批号变化。

Note:

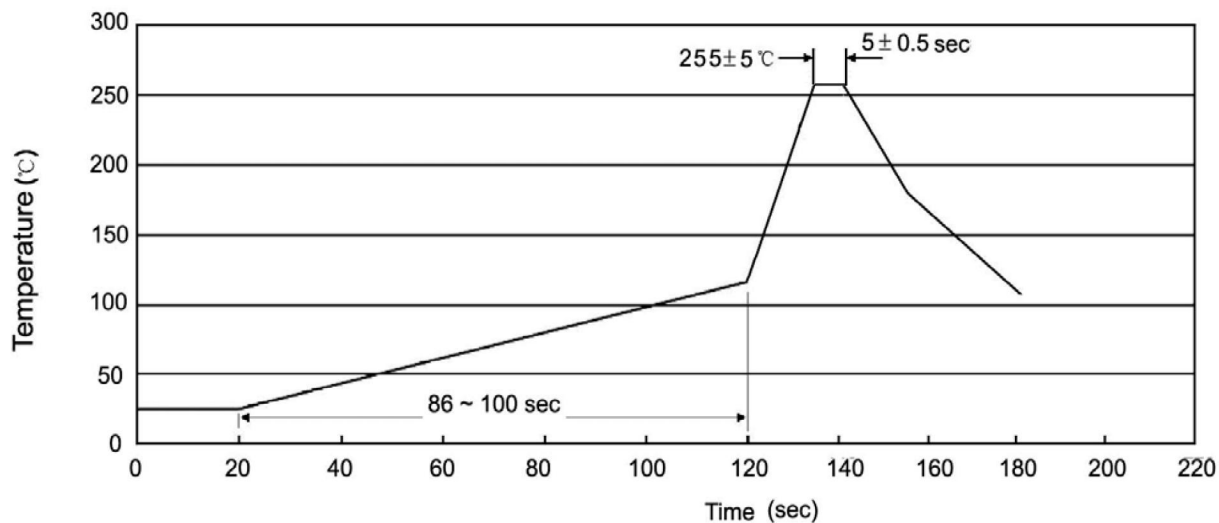
BR: Company Code

13003L: Product Type.

F5: Specification Code.

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

波峰焊温度曲线图(无铅) / Temperature Profile for Dip Soldering(Pb-Free)



说明：

1. 预热温度 25 ~ 150°C，时间 60 ~ 90sec;
2. 峰值温度 255±5°C，时间持续为 5±0.5sec;
3. 焊接制程冷却速度为 2 ~ 10°C/sec.

Note:

1. Preheating: 25~150°C, Time: 60~90sec.
2. Peak Temp.: 255±5°C, Duration: 5±0.5sec.
3. Cooling Speed: 2~10°C/sec.

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

温度：270±5°C

时间：10±1 sec.

Temp.: 270±5°C

Time: 10±1 sec

包装规格 / Packaging SPEC.

散件包装 / BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-126/F	500	6	3,000	5	15,000	135×190	237×172×102	560×245×195

套管包装 / TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-126/F	65	26	1,690	5	8,450	532×31×5.6	555×164×50	575×290×180

使用说明 / Notices