

描述 / Descriptions

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

特征 / Features

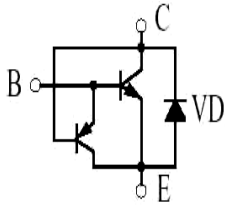
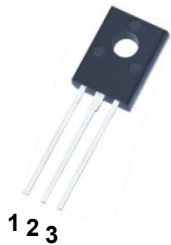
耐压高，快速转换。无卤产品。

High Voltage Capability High Speed Switching. HF Product.

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)

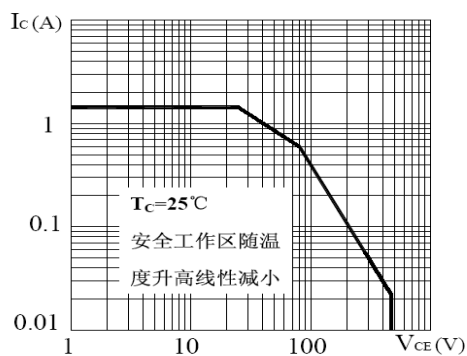
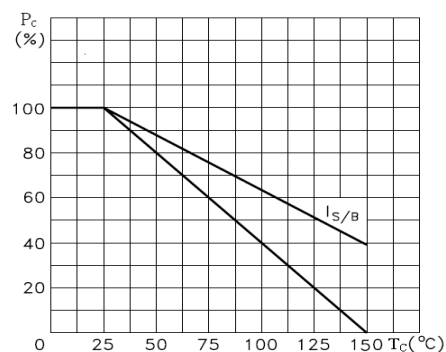
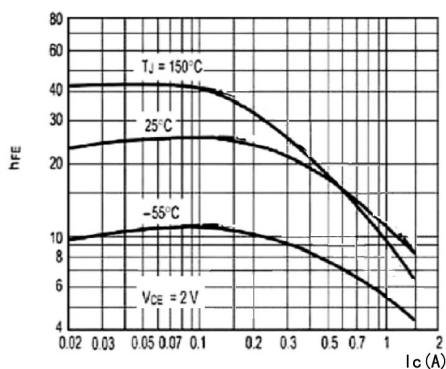
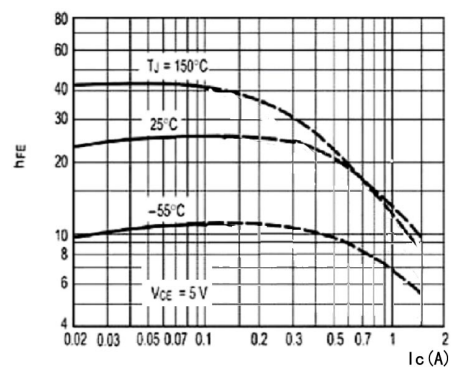
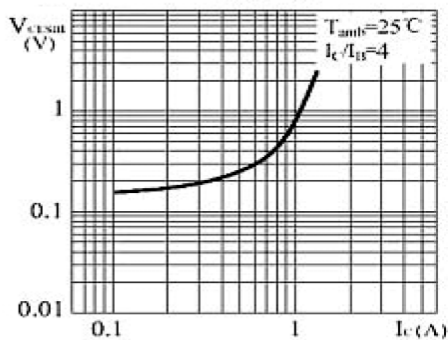
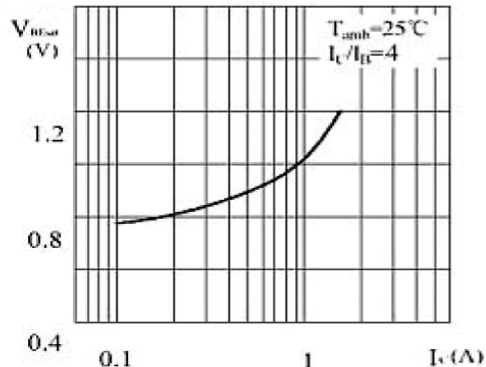
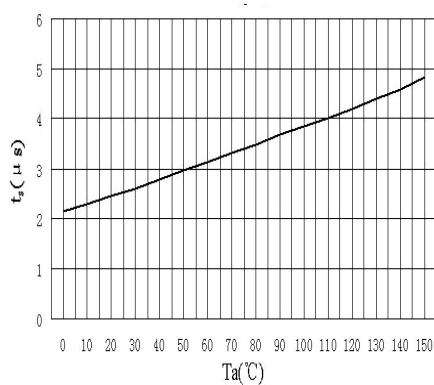
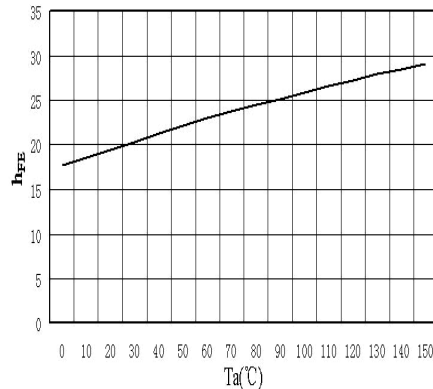
参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Collector to Base Voltage	V_{CBO}	600	V
Collector to Emitter Voltage	V_{CEO}	400	V
Emitter to Base Voltage	V_{EBO}	9.0	V
Collector Current - Continuous	I_C	1.5	A
Collector Power Dissipation	P_C	1.25	W
Collector Power Dissipation	$P_C(T_c=25^{\circ}C)$	40	W
Junction Temperature	T_j	150	$^{\circ}C$
Storage Temperature Range	T_{stg}	-55~150	$^{\circ}C$

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}	$I_C=1mA$ $I_E=0$	600			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=10mA$ $I_B=0$	400			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=1mA$ $I_C=0$	9.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=600V$ $I_E=0$			0.1	mA
Collector cut-off current	I_{CEO}	$V_{CE}=400V$ $I_B=0$			0.1	mA
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=9.0V$ $I_C=0$			0.1	mA
DC Current Gain	h_{FE}	$V_{CE}=5.0V$ $I_C=200mA$	10		40	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=1A$ $I_B=250mA$			0.8	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=1A$ $I_B=250mA$			1.2	V
Transition Frequency	f_T	$V_{CE}=10V$ $I_C=100mA$ $f=1.0MHz$	5.0			MHz
Fall time	t_f	$V_{CE}=5V$ $I_C=250mA$ (UI9600)			0.6	μs
Storage time	t_s				3.5	μs

电参数曲线图 / Electrical Characteristic Curve

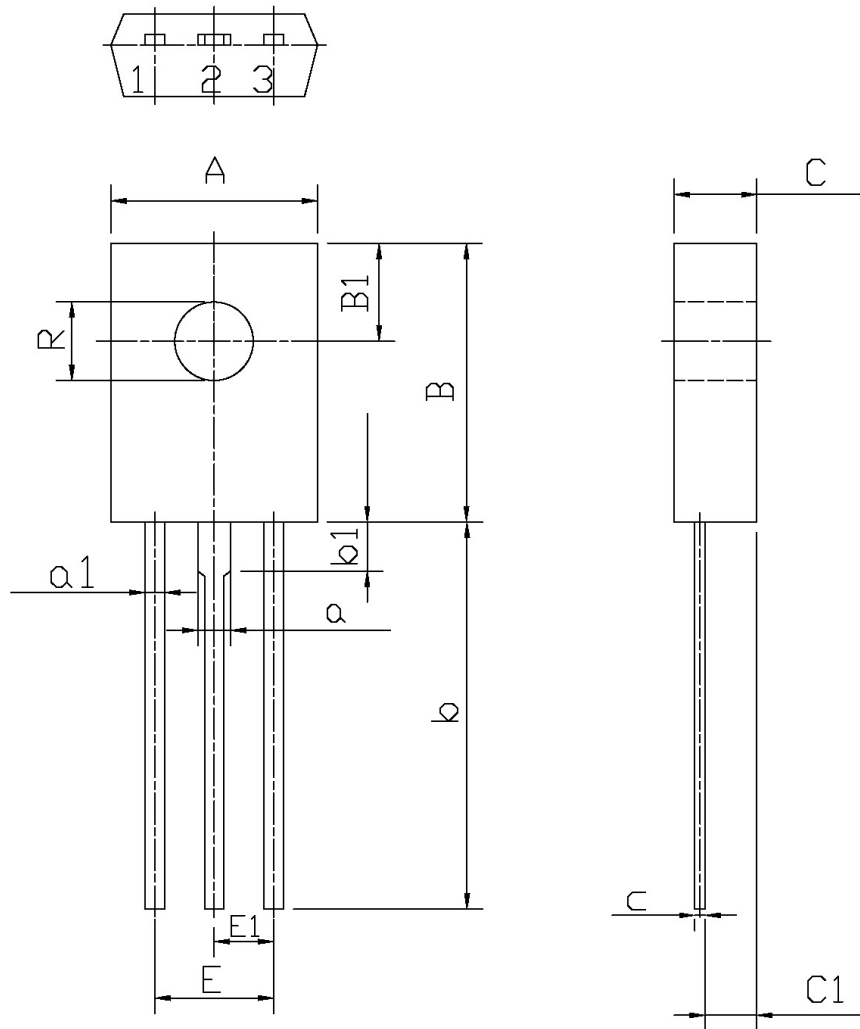
SOA(DC)

 $P_C - T_C$  $h_{FE} - I_C$  $h_{FE} - I_C$  $V_{CES} - I_C$  $V_{bes} - I_C$  $t_s - T_a$  $h_{FE} - T_a$ 

外形尺寸图 / Package Dimensions

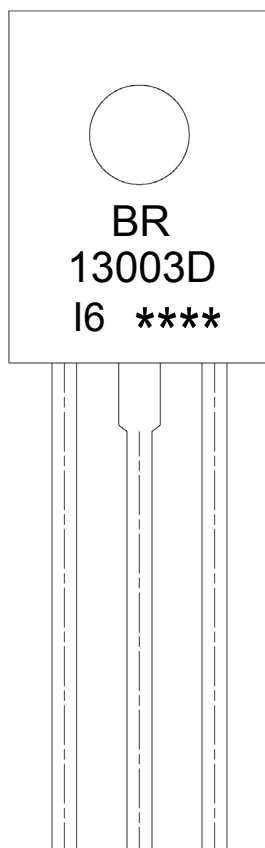
T□-126F(R)

单位: mm



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	7.8	8.2	a1	0.66	0.86
B	10.8	11.2	E	4.4	4.8
B1	3.8	4.2	C	3.1	3.3
R	2.95	3.15	C1	1.9	2.1
b	14	16	c	0.3	0.6
b1	1.9		a	1.27	
E1	2.1	2.5			

印章说明 / Marking Instructions



说明：

BR： 为公司代码

13003D： 为型号代码

I6: 为规格代码

****： 为生产批号代码，随生产批号变化。

Note:

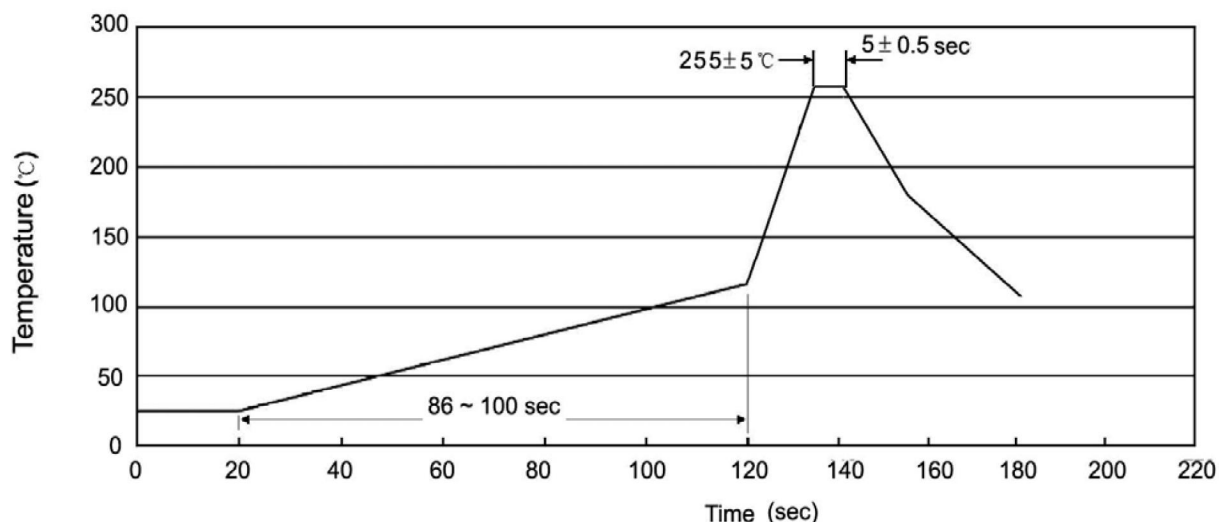
BR: Company Code

13003D: Product Type.

I6: 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