

/ Descriptions

TO-126F

PNP

Silicon PNP transistor in a TO-126F Plastic Package.

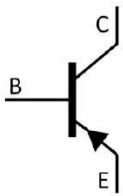
/ Features

BD433

Complementary pair with BD433.

/ Applications

Medium power linear and switching applications.

/ Equivalent Circuit**/ Pinning**

PIN1 Emitter

PIN 2 Collector

PIN 3 Base

/ h_{FE} Classifications & Marking

See Marking Instructions

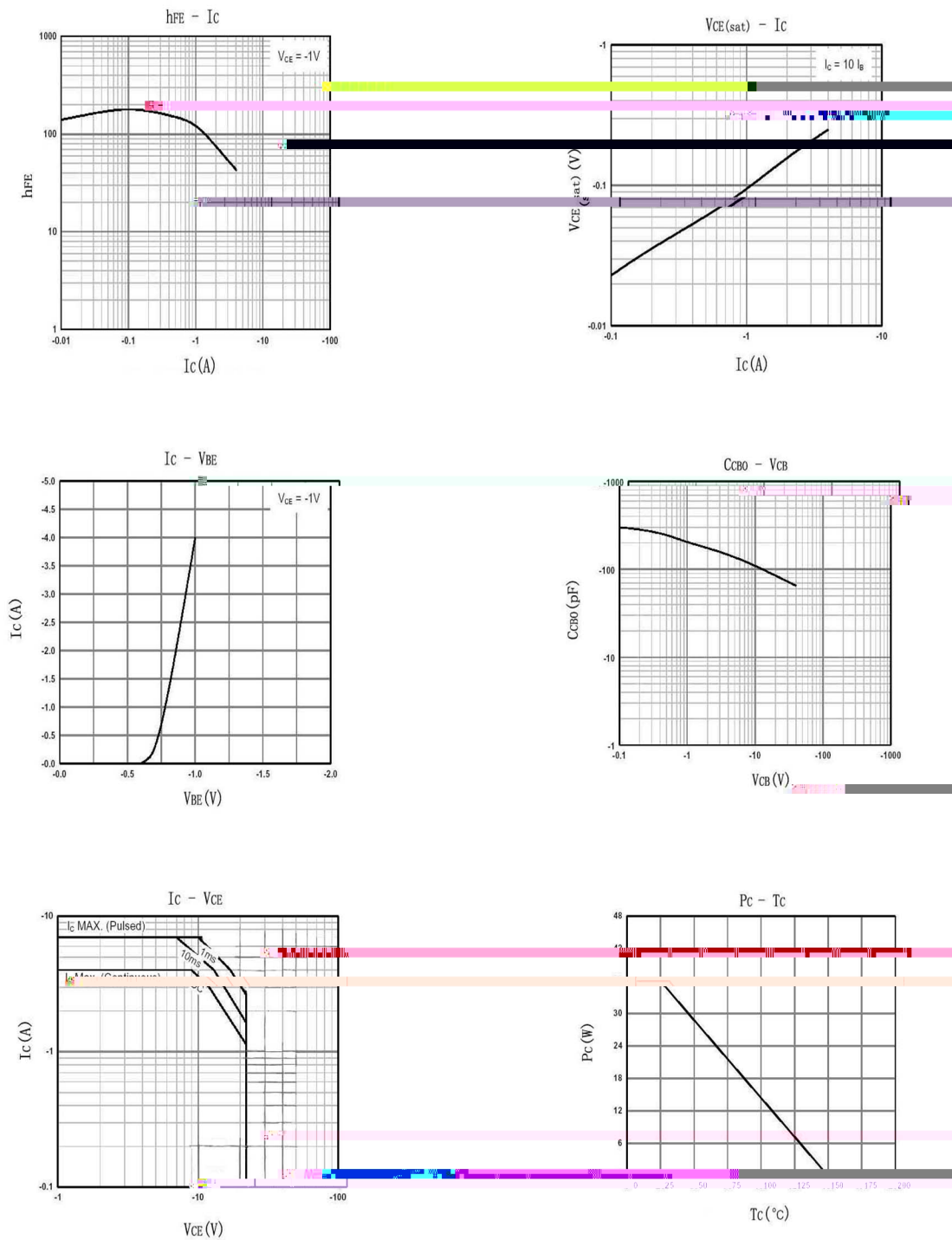
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-22	V
Collector to Emitter Voltage	V_{CEO}	-22	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-4.0	A
Collector Current – Continuous(Pulse)	I_{CP}	-7.0	A
Base Current - Continuous	I_B	-1.0	A
Collector Power Dissipation	P_C	1.0	W
Collector Power Dissipation	$P_C(T_c=25^{\circ}C)$	36	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55~150	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-100mA$ $I_B=0$	-22			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-22V$ $I_E=0$			-100	μA
Collector Cut-Off Current	I_{CEO}	$V_{CE}=-22V$ $V_{BE}=0$			-100	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-5.0$ $I_C=0$			-1.0	mA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-1.0V$ $I_C=-500mA$	85	140		
	$h_{FE(2)}$	$V_{CE}=-1.0V$ $I_C=-2.0A$	50			
	$h_{FE(3)}$	$V_{CE}=-5.0V$ $I_C=-10mA$	40	130		
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-2.0A$ $I_B=-0.2A$		-0.2	-0.5	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=-1.0V$ $I_C=-2.0A$			-1.1	V
Transition Frequency	f_T	$V_{CE}=-1.0V$ $I_C=-250mA$	3.0			MHz

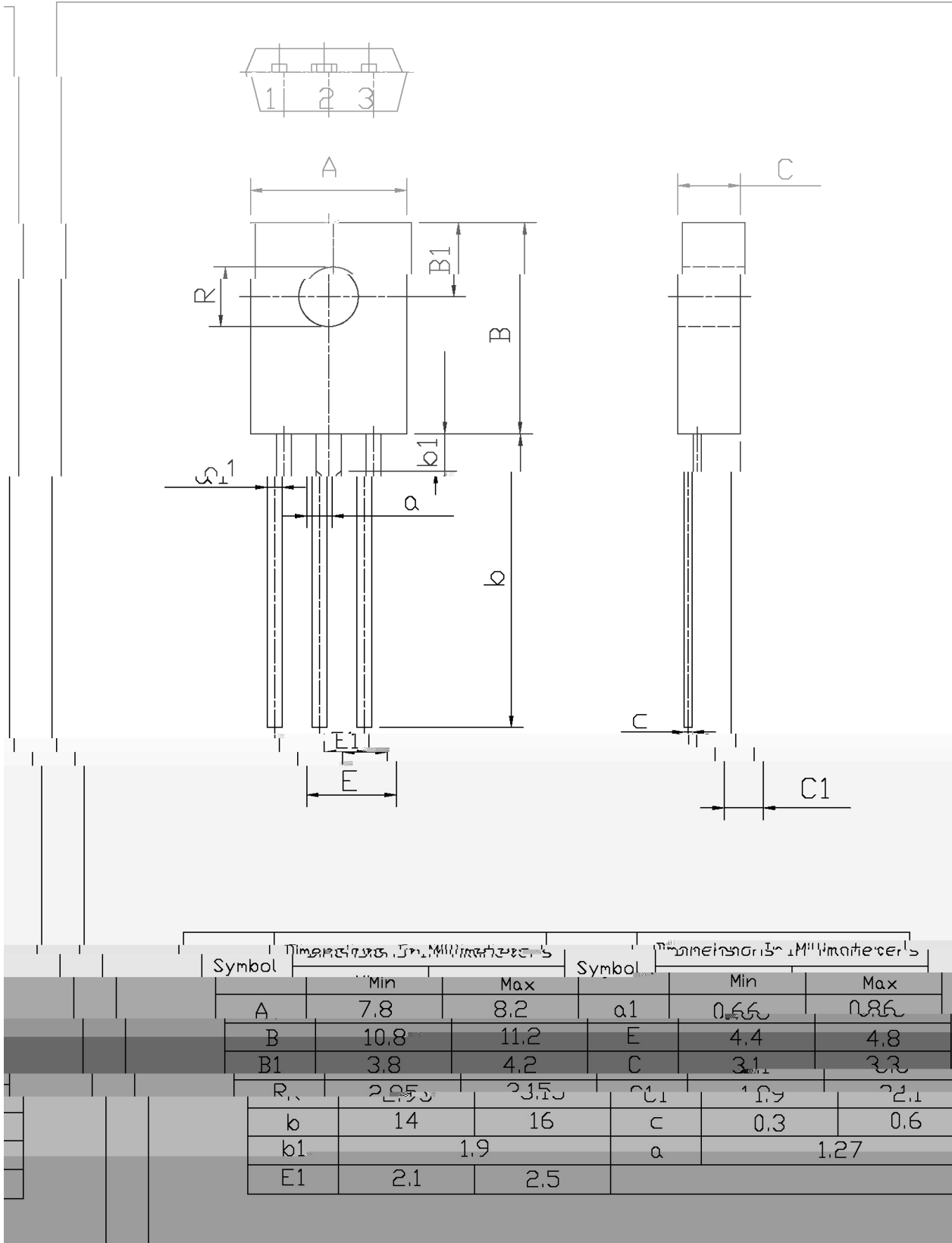
/ Electrical Characteristic Curve



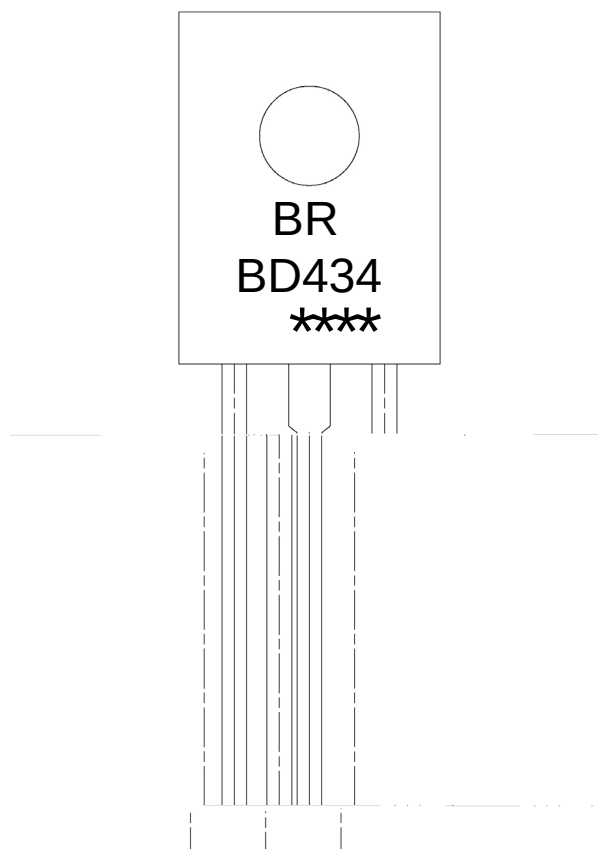
/ Package Dimensions

BU-126T

单位: mm



/ Marking Instructions



BR

BD434

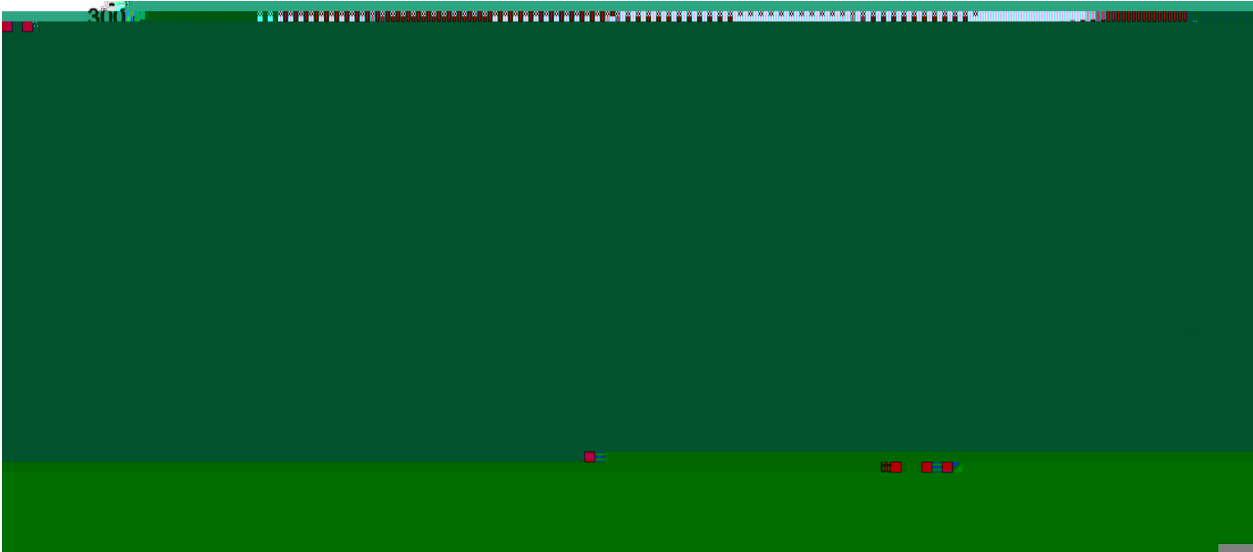
Note:

BR: Company Code

BD434: Product Type.

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

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

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

/ Resistance to Soldering Heat Test Conditions

270±5	10±1 sec.	Temp.:270±5	Time:10±1 sec
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/ Packaging SPEC.

/ 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	