/ Descriptions

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

/ Features

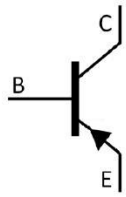
BD435

Complementary pair with BD435.

/ 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}	-32	V
Collector to Emitter Voltage	V_{CEO}	-32	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	1.25	W
Collector Power Dissipation	P_C(Tc=25℃)	36	W
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55～150	℃

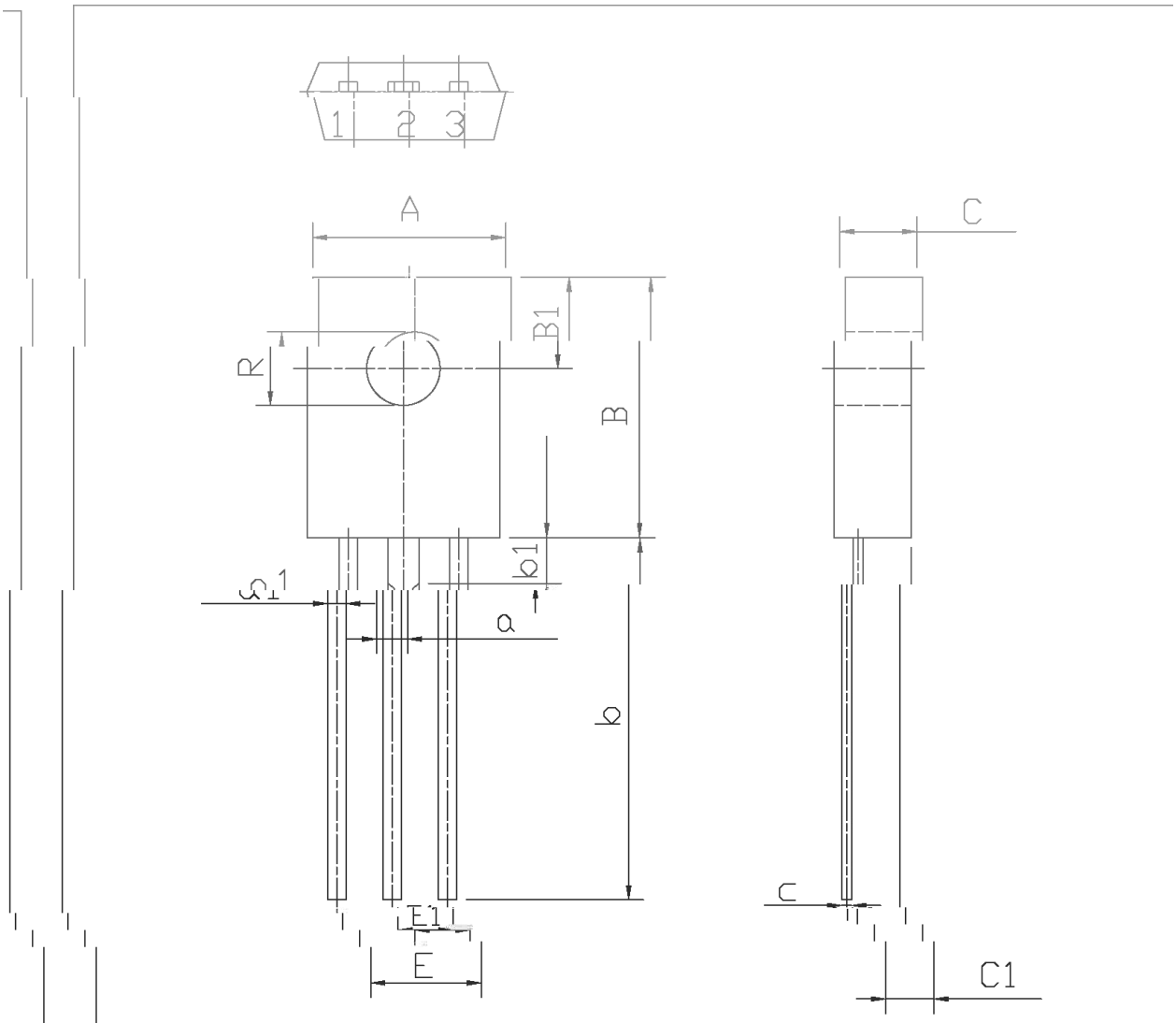
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=-100mA I_B=0	-32			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-32V I_E=0			-100	A
Collector Cut-Off Current	I_{CEO}	V_{CE}=-32V I_B=0			-100	A
Emitter Cut-Off Current	I_{EBO}	V_{EB}=-5.0V 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

BD436

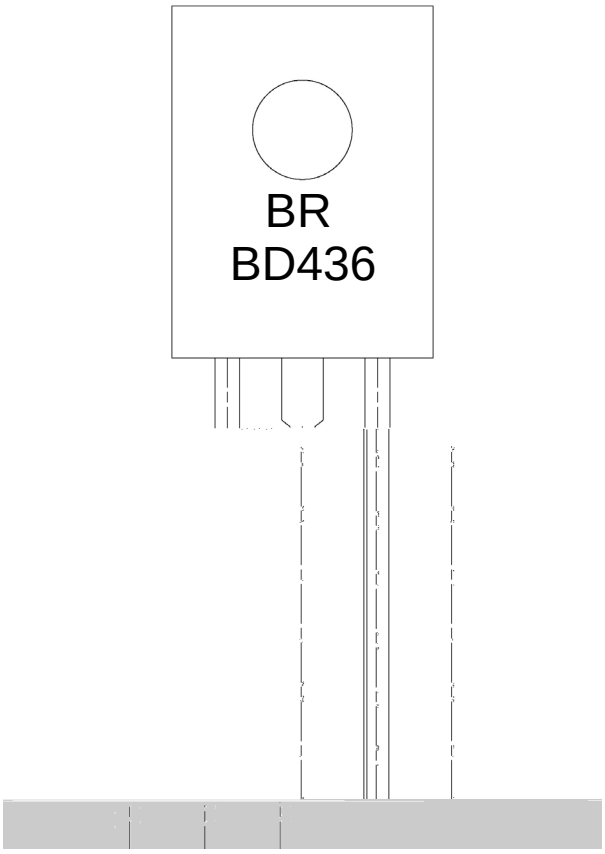
/ Package Dimensions

TO-126F 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
R	10.8	11.0	E	1.1	1.3
B1	3.8	4.2	C	0.51	0.63
R	2.95	3.15	C1	1.9	2.1

/ Marking Instructions



BR

BD436

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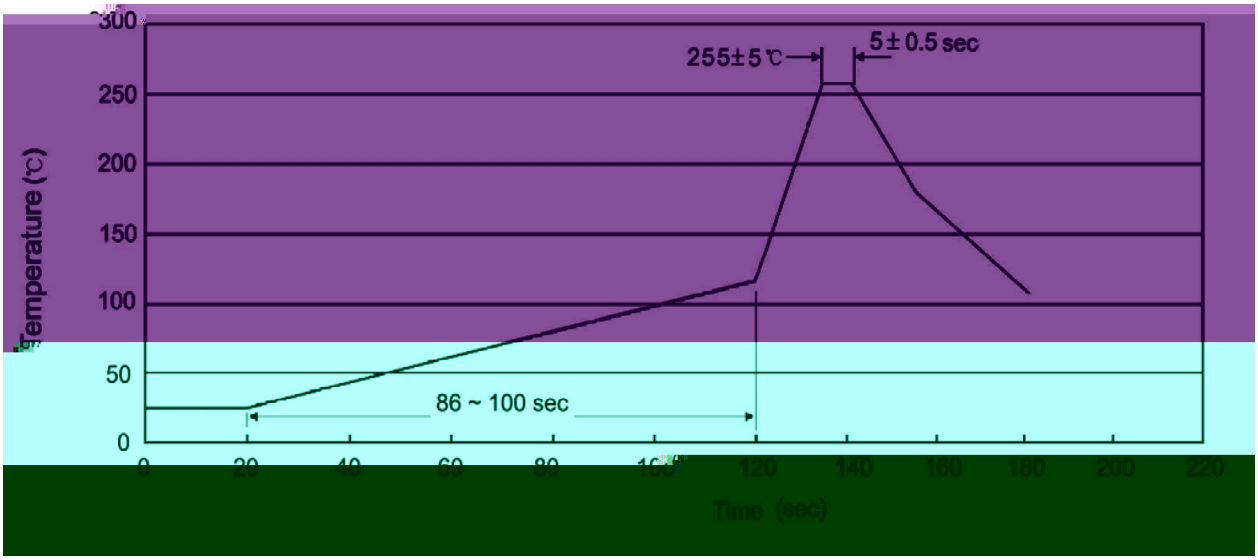
Note:

BR:	Company Code
BD436:	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

/ Packaging SPEC.

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	只 套管	套管 盒	只 盒	盒 箱	只 箱	套管	盒	箱

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	只 套管	套管 盒	只 盒	盒 箱	只 箱	套管	盒	箱

/ Notices