

BD435

Rev.E Mar.-2016

/ Descriptions

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

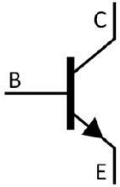
/ Features

BD 436
Complementary pair with BD436.

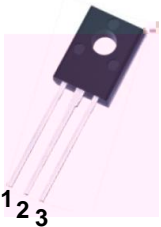
/ Applications

Medium power linear and switching applications.

/ Equivalent Circuit



/ Pinning



PIN1 Emitter PIN 2 Collector PIN 3 Base

/ h_{FE} Classifications & Marking

See Marking Instructions

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	$P_C(T_c=25^\circ C)$	36	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Emitter Sustaining Voltage	V_{CEO}	$I_C=100mA$ $I_B=0$	32			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=32V$ $I_E=0$			100	μA
Collector Cut-Off Current	I_{CEO}	$V_{CE}=32V$ $I_B=0$			100	μA
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		

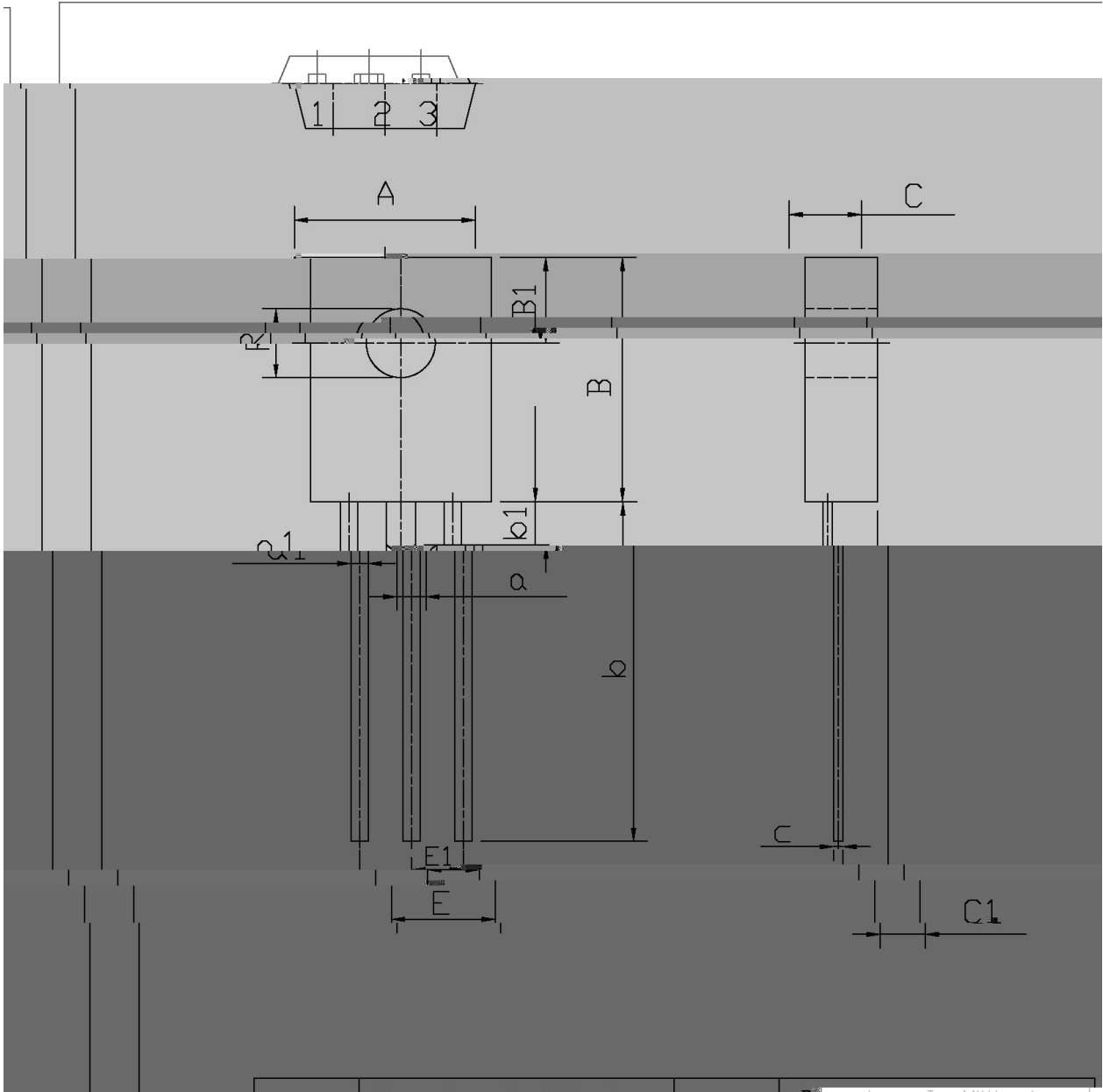
Collector to Emitter Saturation Voltage

V

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/ Package Dimensions

单位: mm



Dimensions in Millimeters (Inch) Dimensions in Millimeters

4.8	R	10.8	11.2	E	4.4
2.1	B1	3.8	4.2	C	3.1
0.6	R	2.95	3.15	C1	1.9
2.7	b	14	16	c	0.3
	b1		1.9	a	1
	E1	2.1	2.5		

/ Marking Instructions



BR

BD435

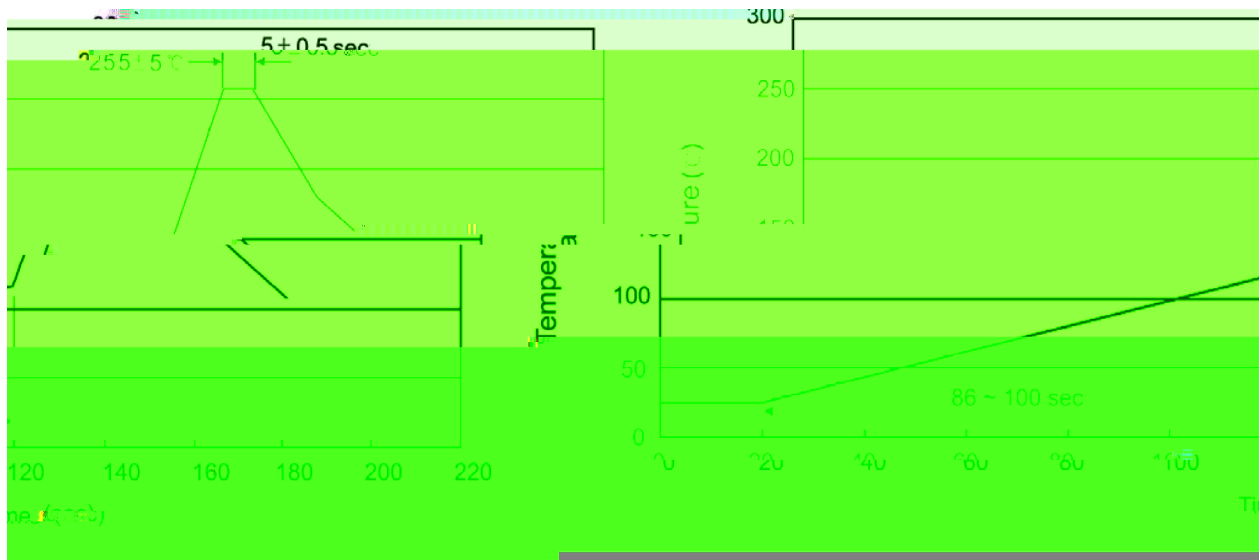
Note:

BR: Company Code

BD435: 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	Units					Dimension (unit mm ³)		
	Units/Tube	Tubes/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Tube	Inner Box	Outer Box
TO-126/F	500	6	3,000	5	15,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type	Units	Dimension (unit mm ³)
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