

Rev.E Mar.-2016

TO-126F

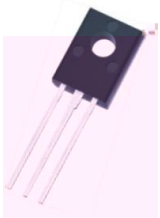
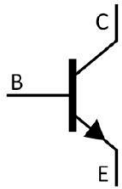
NPN

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

BD436

Complementary pair with BD436.

Medium power linear and switching applications.



PIN1 Emitter

PIN 2 Collector

PIN 3 Base

See Marking Instructions

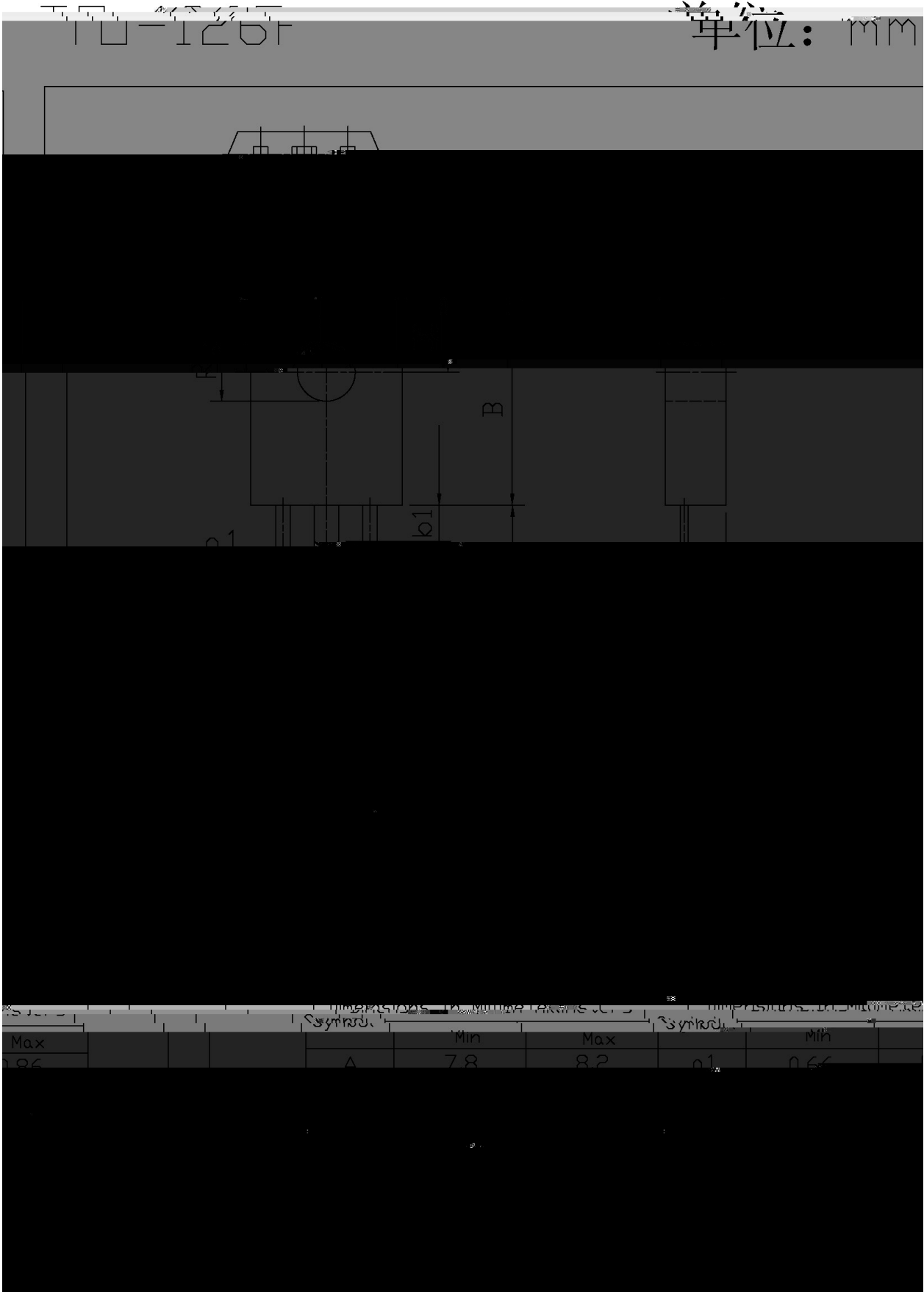
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	32	V
Collector to Emitter Voltage	$V_{CEO}$	32	V
Emitter to Base Voltage	$V_{EBO}$	5.0	V
Collector Current - Continuous	$I_C$	4.0	A
Collector Current – Continuous(Pulse)	$I_{CP}$	7.0	A
Base Current - Continuous	$I_B$	1.0	A
Collector Power 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	

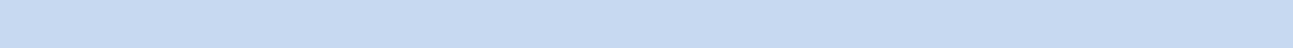
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Emitter Sustaining Voltage	$V_{CEO}$	$I_C=100mA$ $I_B=0$	32			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=32V$ $I_E=0$			100	$\mu A$
Collector Cut-Off Current	$I_{CEO}$	$V_{CE}=32V$ $I_B=0$			100	$\mu A$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=5.0V$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







BR

BD435

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Note:

BR: Company Code

BD435: Product Type.

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


**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.            |

270±5

10±1 sec.

Temp.:270±5

Time:10±1 sec

/ BULK

Package Type	Units					Dimension (unit mm <sup>3</sup> )		
	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 <sup>3</sup> )
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