/ Descriptions

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

/ Features

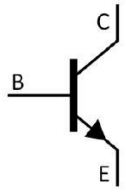
BD436

Complementary pair with BD436.

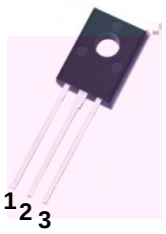
/ Applications

Medium power linear and switching applications.

/ Equivalent Circuit



/ Pinning



PIN1 Emitter PIN 2 Collector PIN 3 Base

/ h_{FE} Classifications & Marking

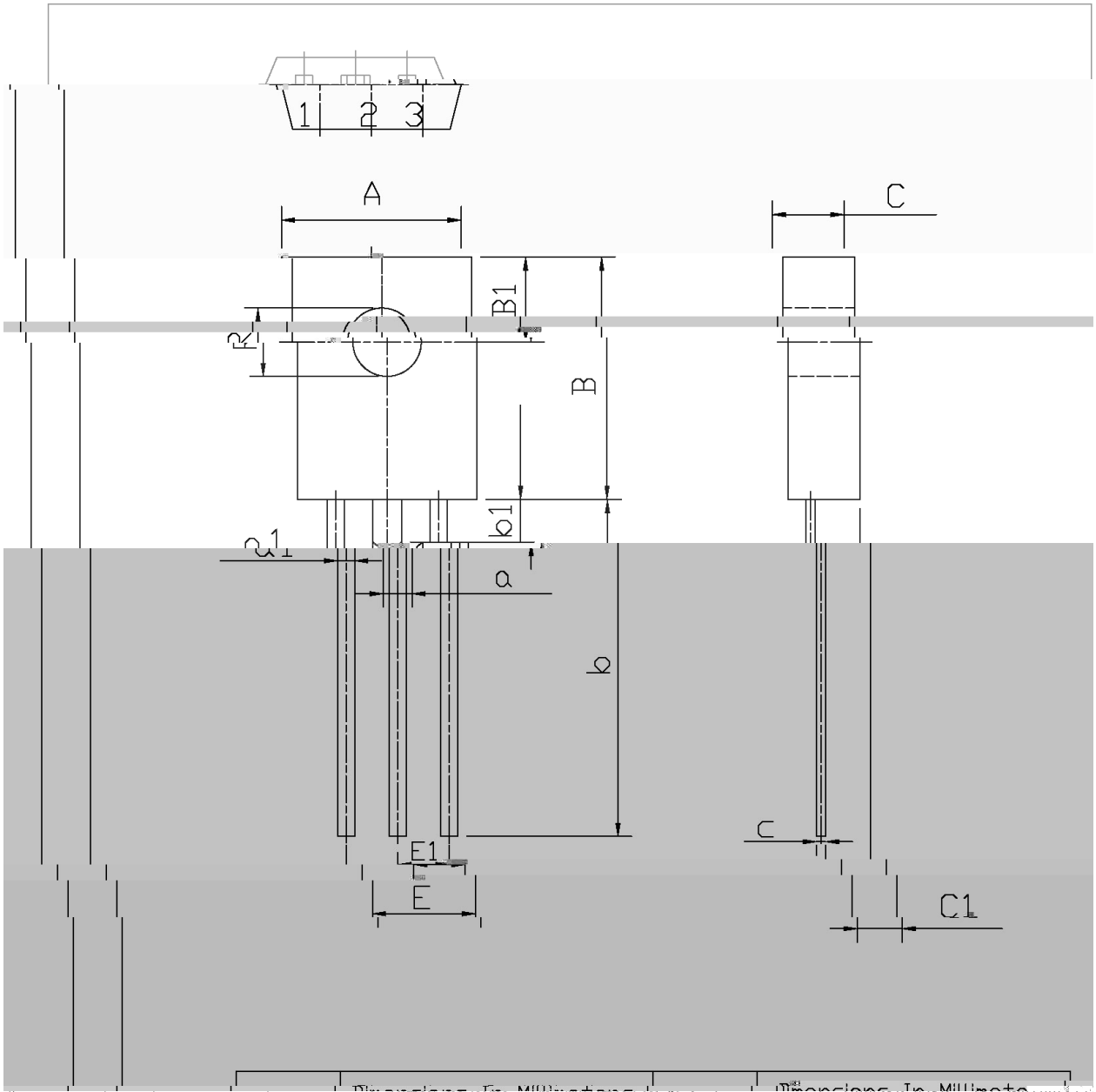
See Marking Instructions

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(Tc=25)	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					

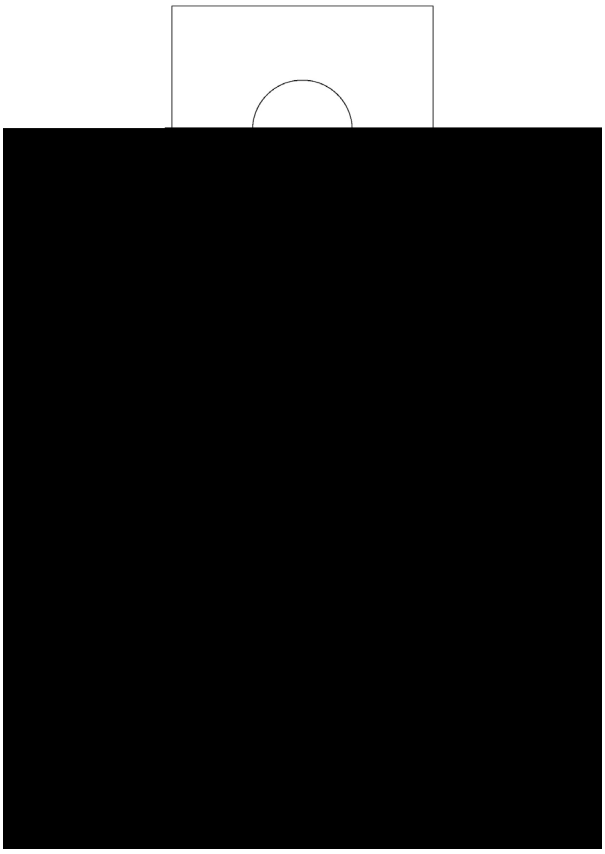
/ Package Dimensions

TO-126T 单位：mm



Dimensions In Millimeters				Dimensions In Millimeters			
Symbol	Min	Max		Symbol	Min	Max	
A	7.8	8.2		a1	0.66	Max	
B	10.8	11.2		E	4.4	4.8	
B1	8.9	10.1		e	2.15	2.45	

/ Marking Instructions



BR

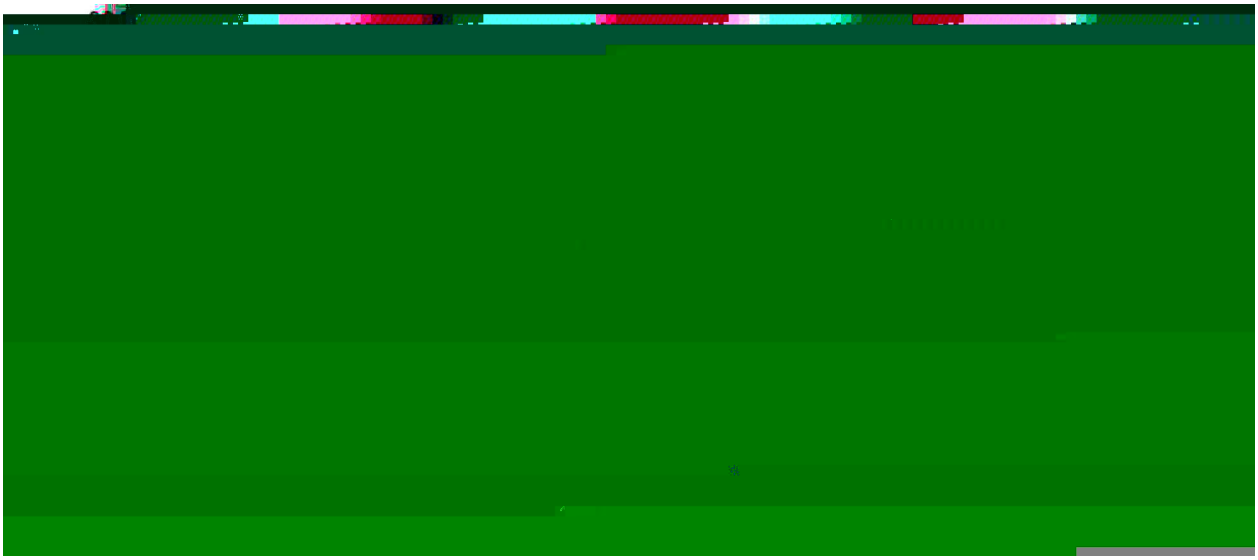
BD435

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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)

/ TUBE

Package Type	Units	Dimension	(unit mm^3)