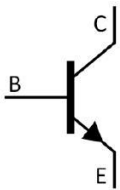


Rev.E Mar.-2016

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

BD442
Complementary pair with BD442.

Medium power linear and switching applications.

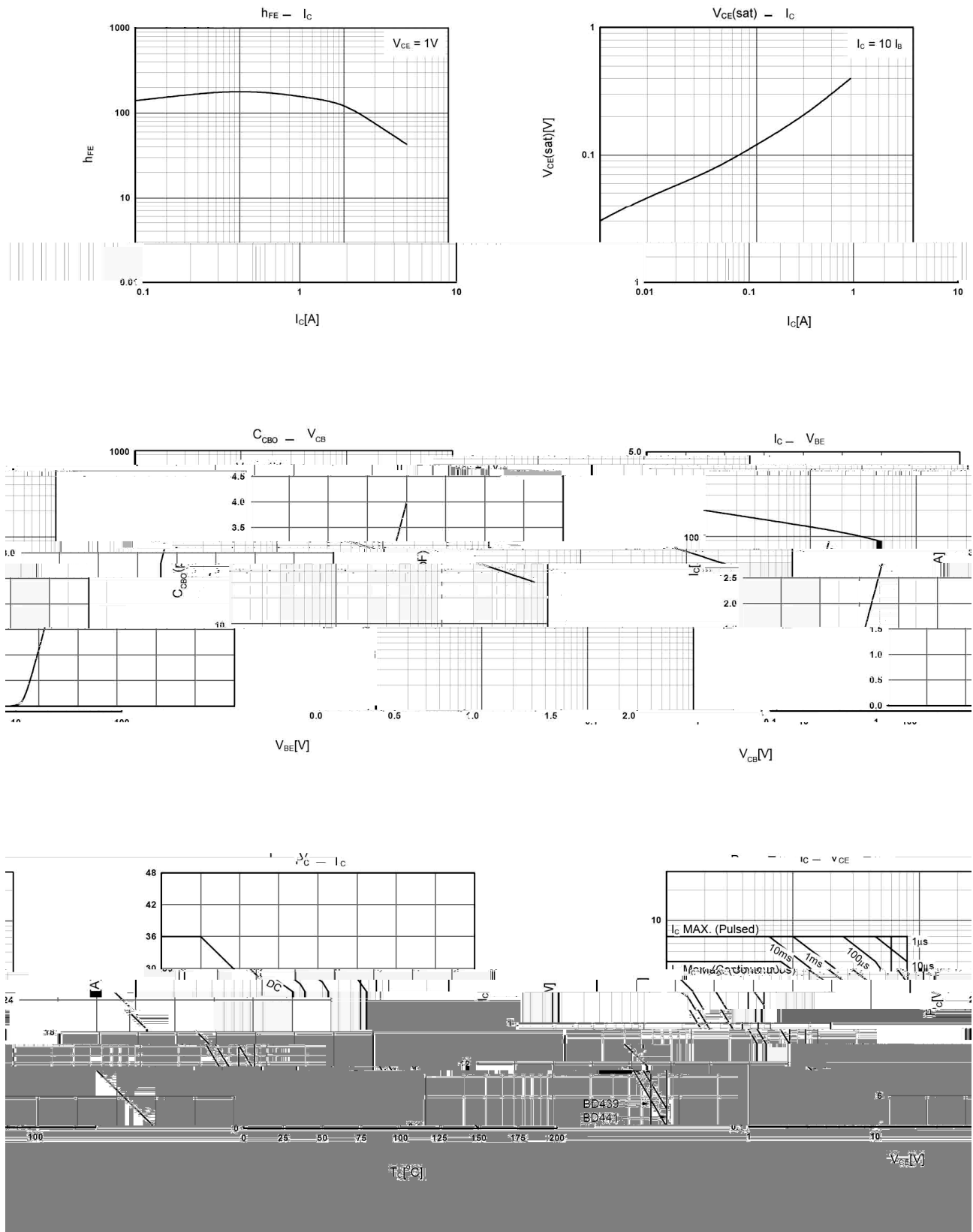


PIN1 Emitter PIN 2 Collector PIN 3 Base

See Marking Instructions

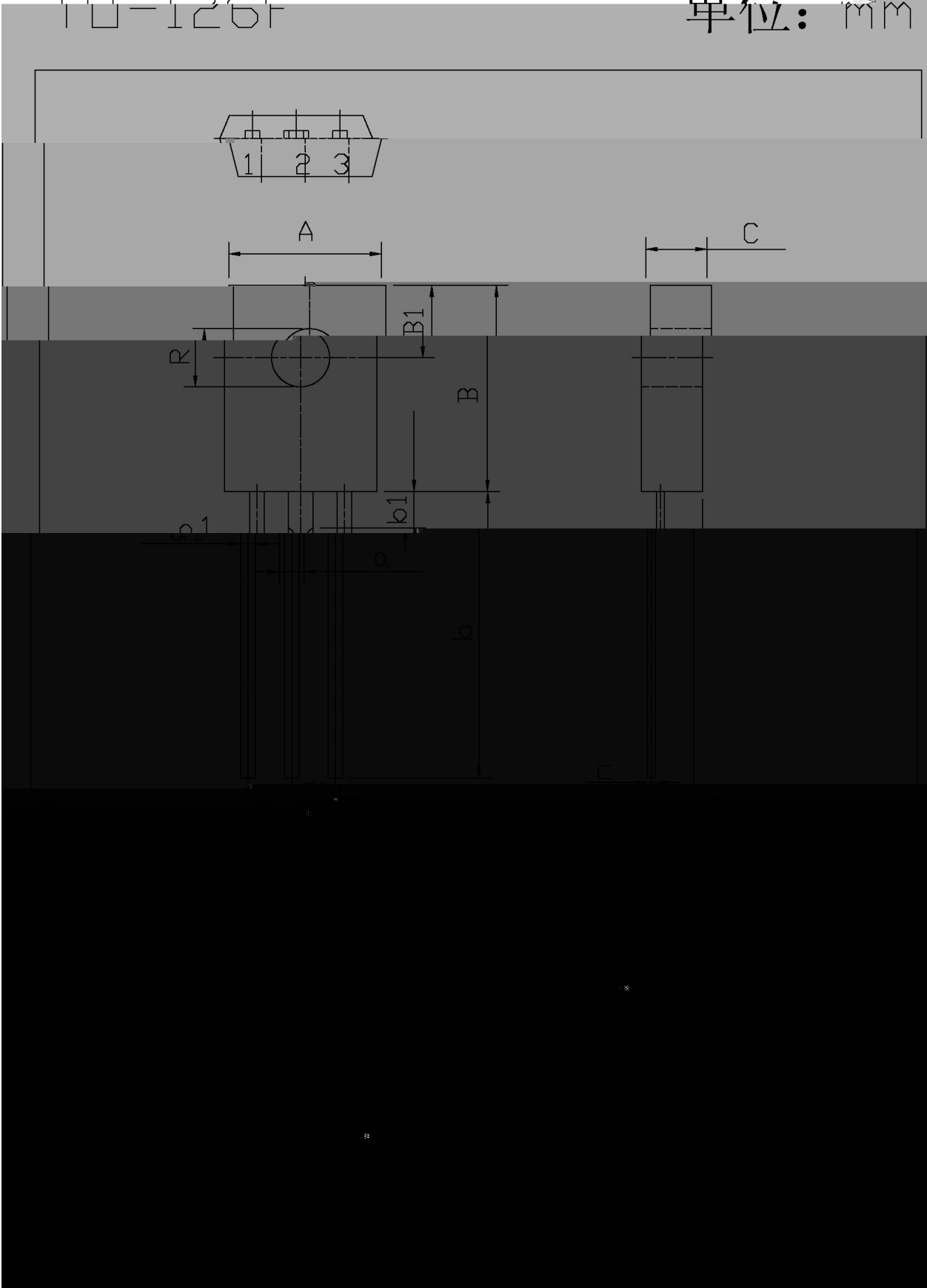
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	80	V
Collector to Emitter Voltage	V_{CES}	80	V
Collector to Emitter Voltage	V_{CEO}	80	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	4.0	A
Peak Collector Current	I_{CP}	7.0	A
Base Current - Continuous	I_B	1.0	A
Collector Power Dissipation	$P_C(T_c=25^\circ C)$	36	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

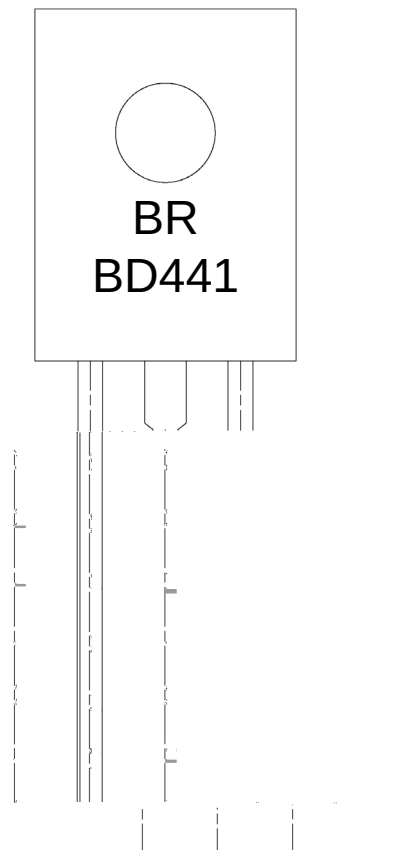
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=100mA$ $I_B=0$	80			V
Collector to Emitter Breakdown Voltage	V_{CES}	$I_C=1.0mA$ $R_{BE}=0$	80			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=80V$ $I_E=0$			100	A
Collector Cut-Off Current	I_{CES}	$V_{CE}=80V$ $V_{BE}=0$			100	A
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5.0V$ $I_C=0$			1.0	mA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=1.0V$ $I_C=500mA$	40	140	475	
	$h_{FE(2)}$	$V_{CE}=5.0V$ $I_C=10mA$	15	130		
	$h_{FE(3)}$	$V_{CE}=1.0V$ $I_C=2.0A$	15			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=2.0A$ $I_B=0.2A$			0.8	V
Base to Emitter On Voltage	$V_{BE(on)(1)}$	$V_{CE}=5.0V$ $I_C=10mA$		0.58		V
	$V_{BE(on)(2)}$	$V_{CE}=1.0V$ $I_C=2.0A$			1.5	V
Transition Frequency	f_T	$V_{CE}=1.0V$ $I_C=250mA$	3.0			MHz



TU-126T

单位: mm





BR

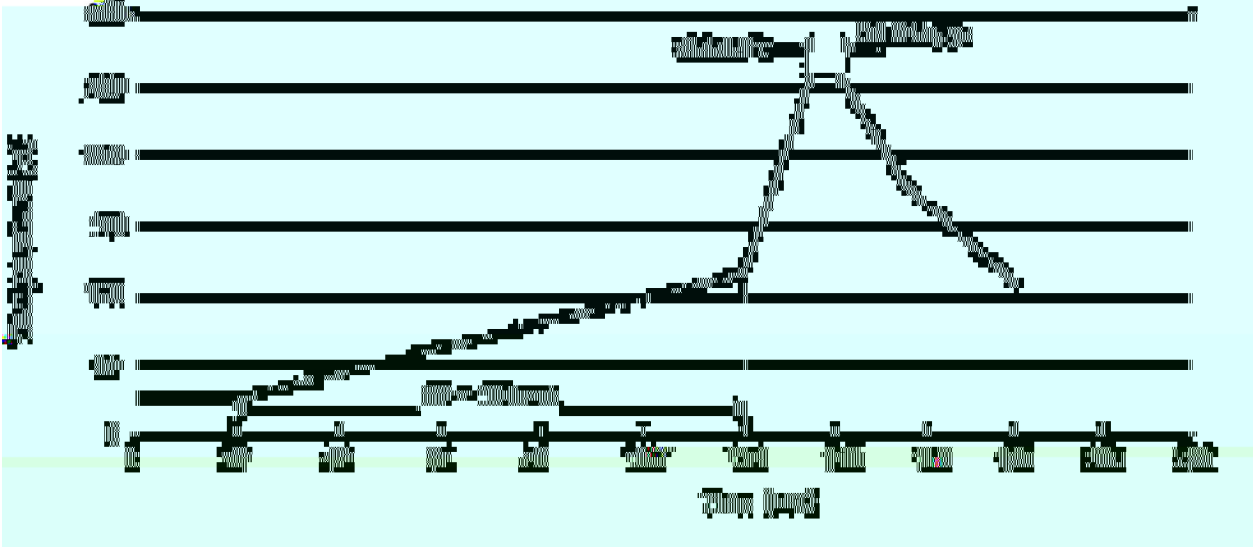
BD441

Note:

BR: Company Code

BD441: 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 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