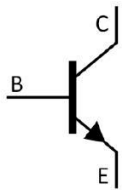


Rev.E Mar.-2016

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

BD136
 Complement to BD136.

Medium power linear and switching applications.

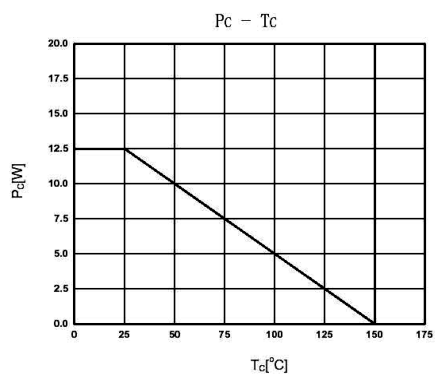
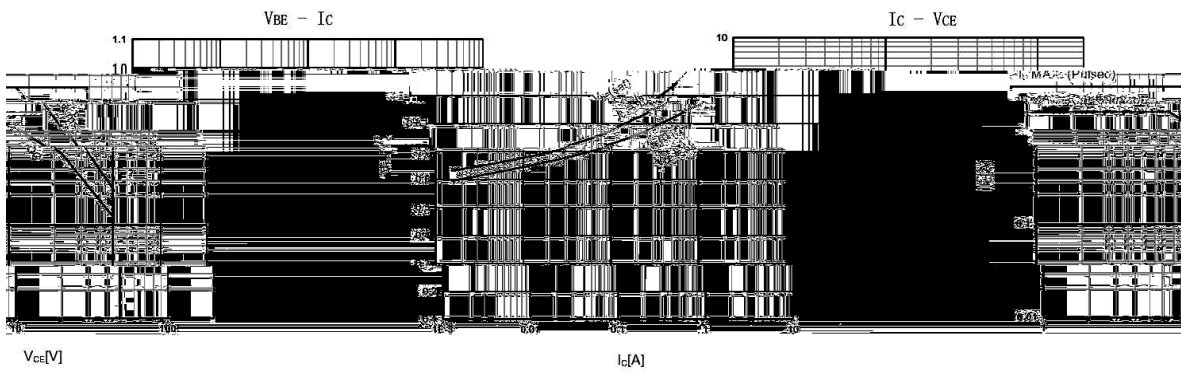
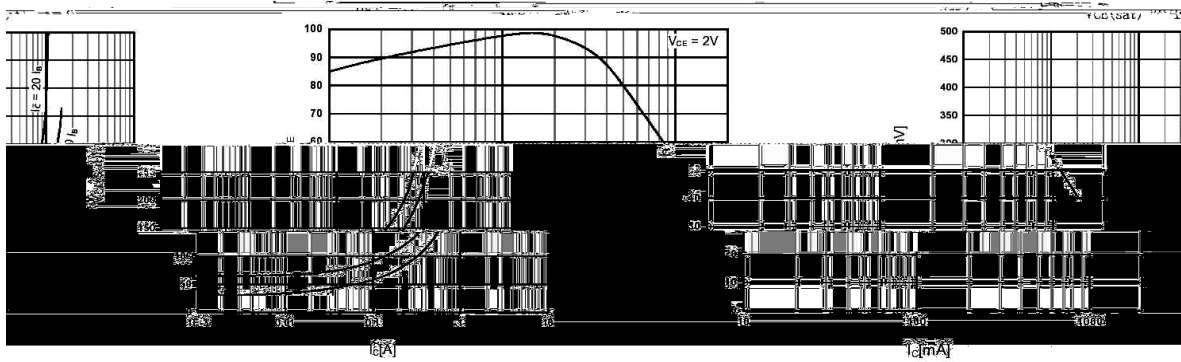


PIN 1 Emitter PIN 2 Collector PIN 3 Base

h_{FE} Classifications Symbol	6	10	16
h_{FE} Range	40 100	63 160	100 250

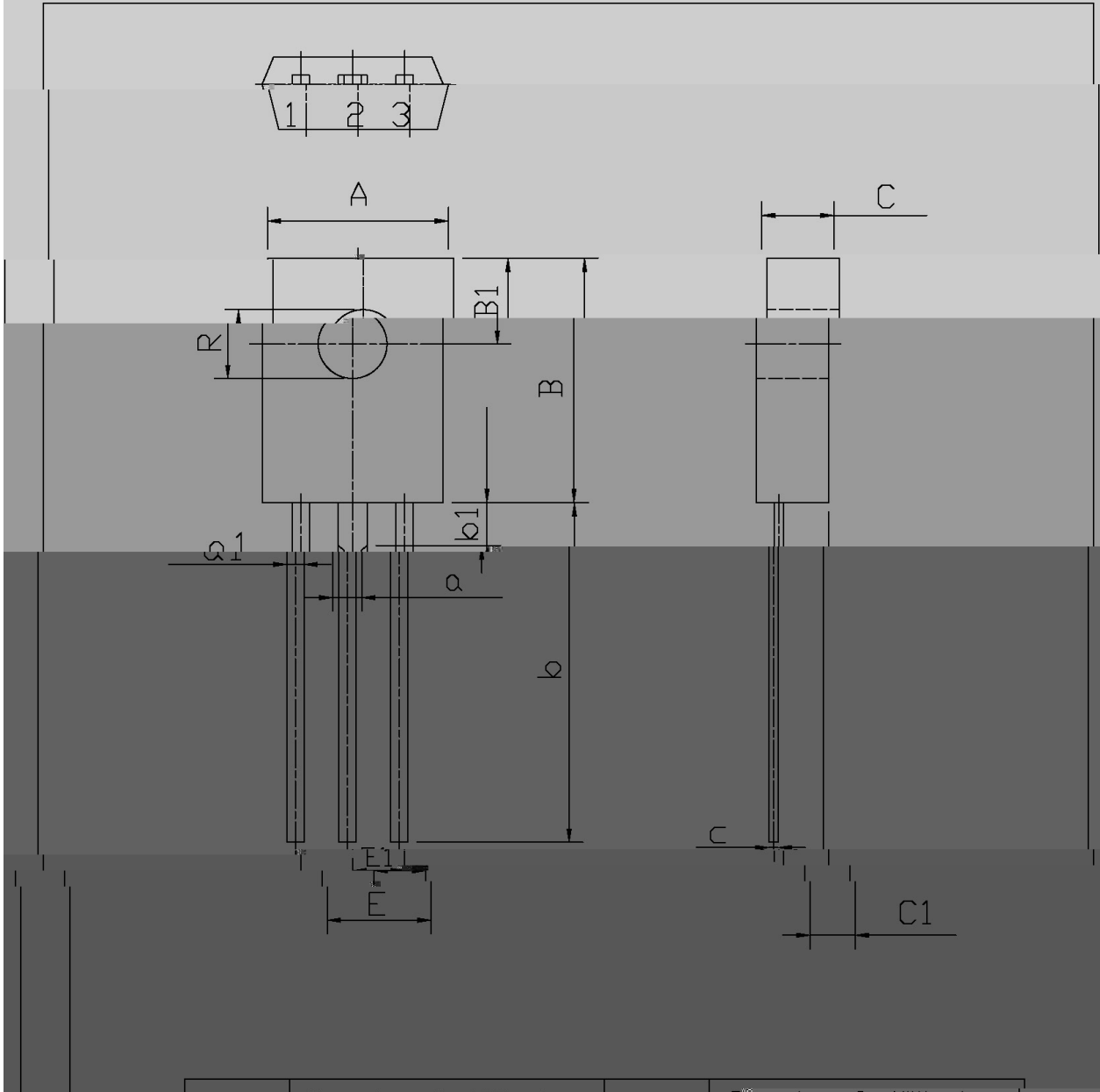
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	45	V
Collector to Emitter Voltage	V_{CEO}	45	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	1.5	A
Collector Current – Continuous	I_{CP}	3.0	A
Base Current – Continuous	I_B	0.5	A
Collector Power Dissipation	P_C	1.25	W
Collector Power Dissipation	$P_C(T_C=25^\circ\text{C})$	12.5	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}	$I_C=30\text{mA}$ $I_B=0$	45			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=30\text{V}$ $I_E=0$			0.1	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5.0\text{V}$ $I_C=0$			10	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=2.0\text{V}$ $I_C=150\text{mA}$	40		250	
	$h_{FE(2)}$	$V_{CE}=2.0\text{V}$ $I_C=500\text{mA}$	25			
	$h_{FE(3)}$	$V_{CE}=2.0\text{V}$ $I_C=5.0\text{mA}$	25			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500\text{mA}$ $I_B=50\text{mA}$			0.5	V
Base to Emitter On Voltage	$V_{BE(on)}$	$V_{CE}=2.0\text{V}$ $I_C=500\text{mA}$			1.0	V

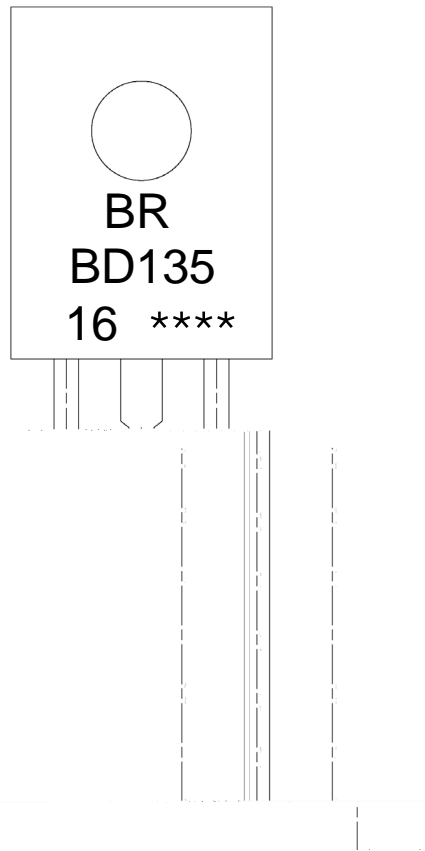


TU-126F

单位: mm



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	7.8	8.2	a1	0.46	0.86



BR

BD135

16: h_{FE}

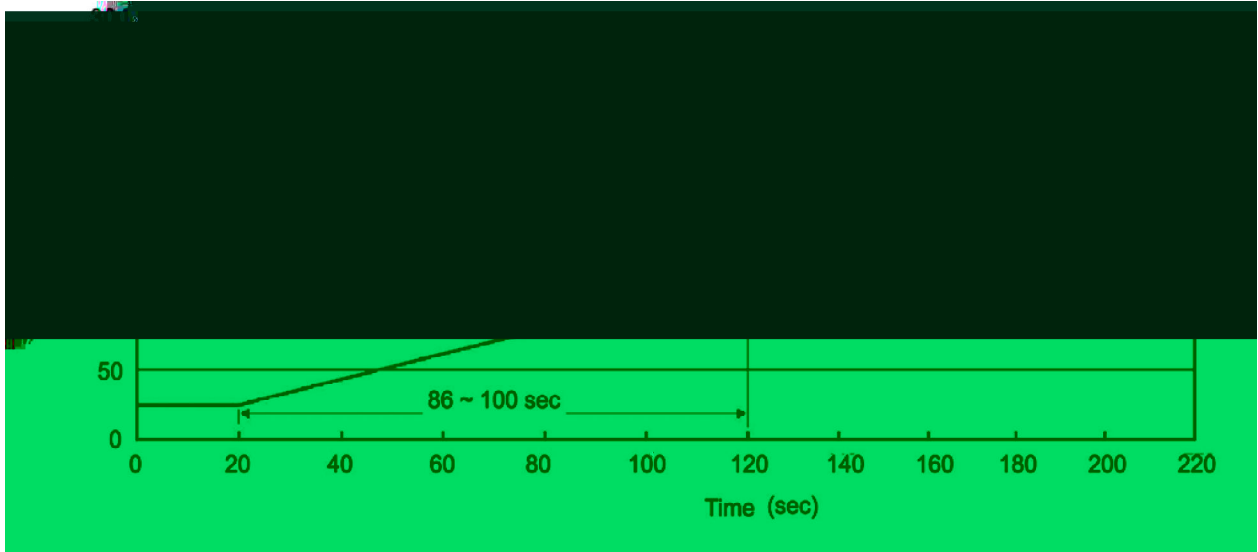
Note:

BR: Company Code

BD135: Product Type.

16: h_{FE} Classifications Symbol

****: 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)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-126/F	500	6	3,000	5	15,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
								T13 0.231(9#)/T36