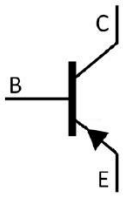
Silicon PNP transistor in a TO-126F Plastic Package.

Complement to BD135.

Medium power linear and switching applications.

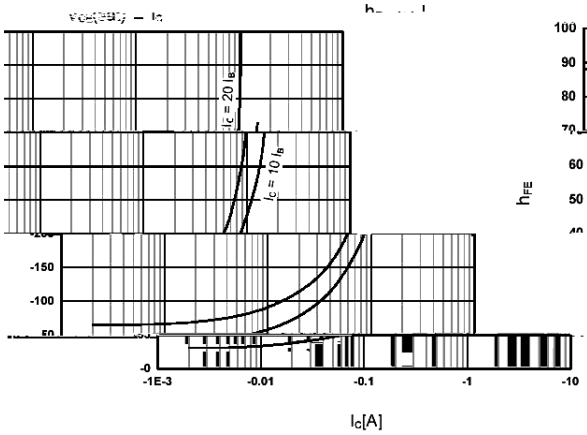


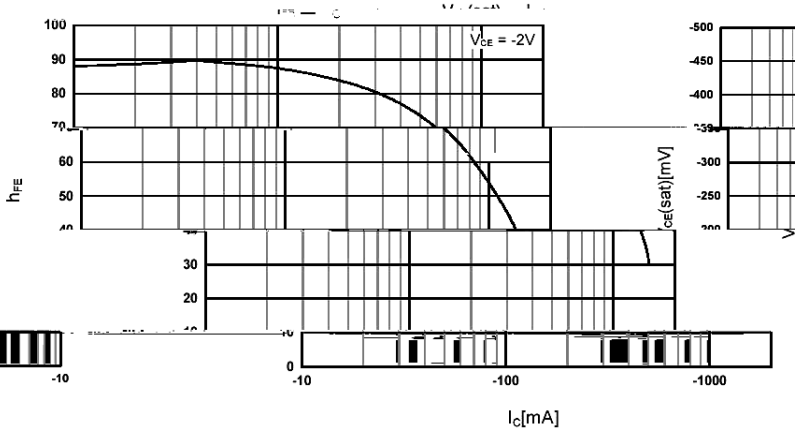
PIN1 Emitter PIN 2 Collector PIN 3 Base

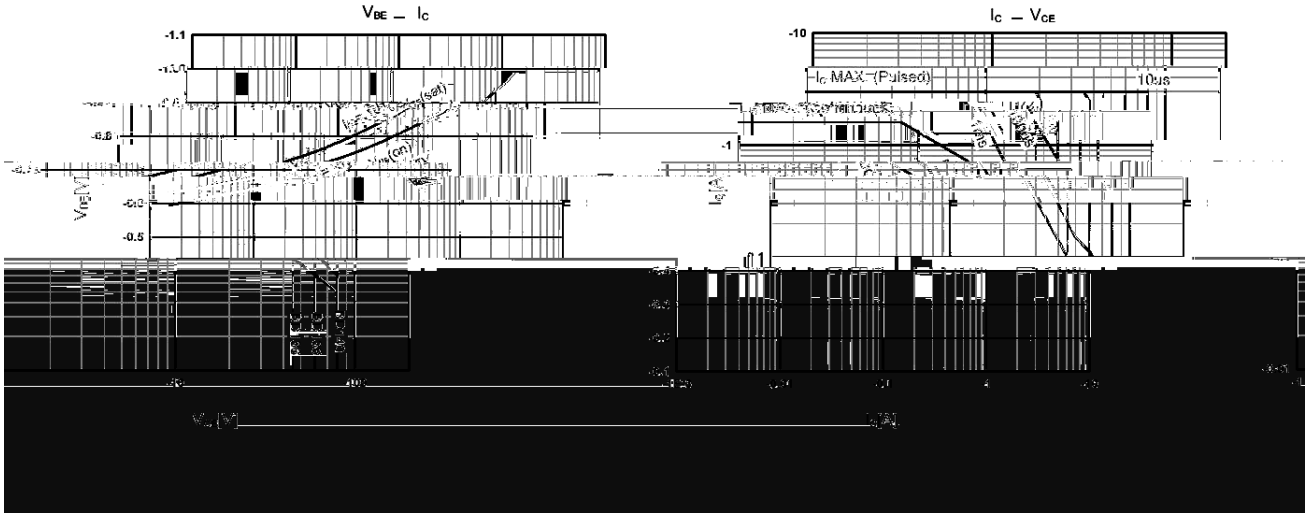
h_{FE} Classifications Symbol	6	10	16
h_{FE} Range	40 100	63 160	100 250

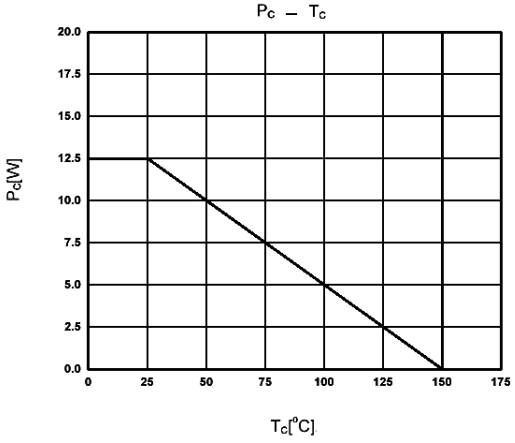
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-45	V
Collector to Emitter Voltage	V_{CEO}	-45	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-1.5	A
Collector Current – Continuous	I_{CP}	-3.0	A
Base Current – Continuous	I_B	-0.5	A
Collector Power Dissipation	P_C	1.25	W
Collector Power Dissipation	P_C(Tc=25℃)	12.5	W
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55 150	℃

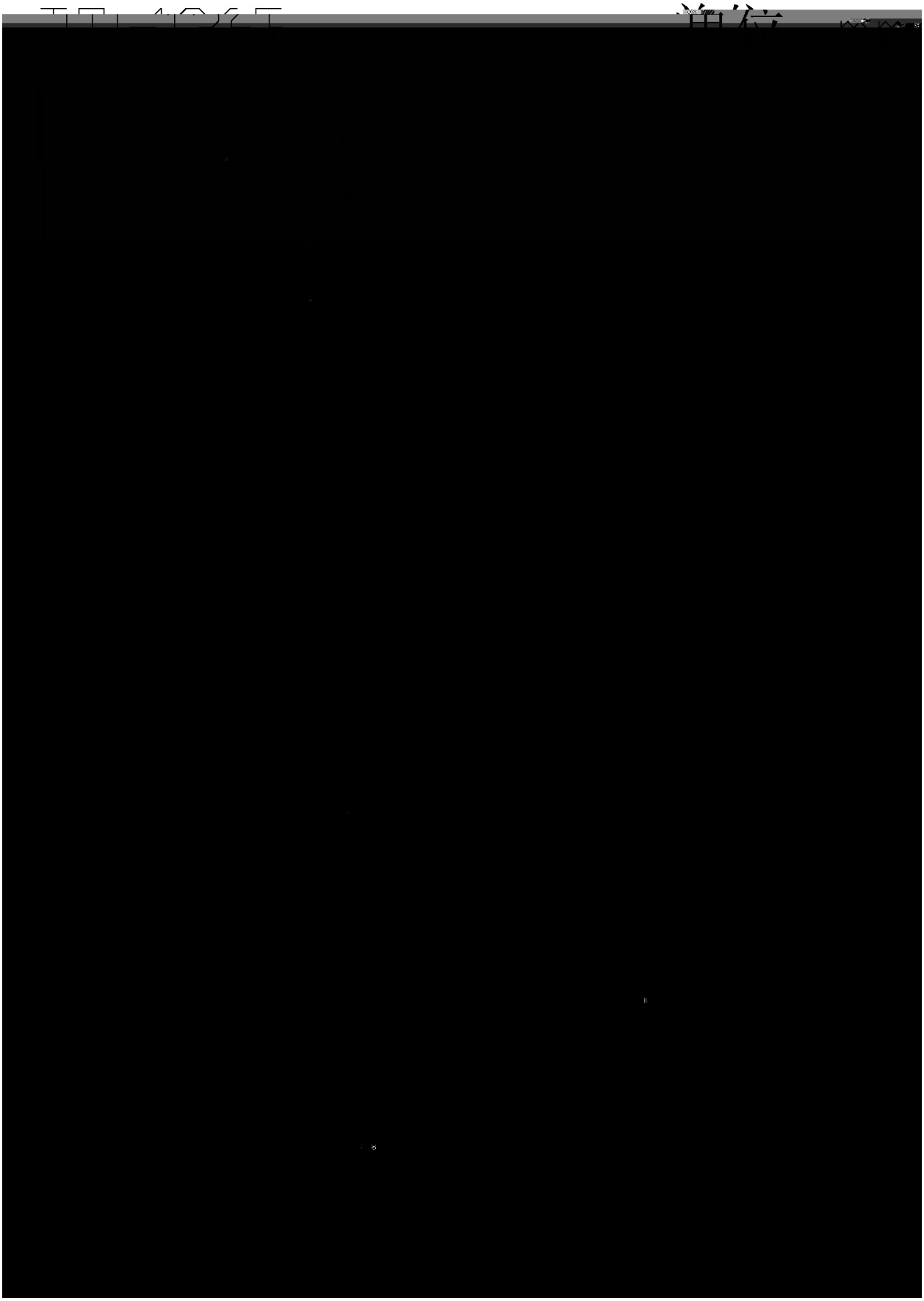
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=-30mA I_B=0	-45			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-30V I_E=0			-0.1	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=-5.0V I_C=0			-10	μA
DC Current Gain	$h_{FE(1)}$	V_{CE}=-2.0V I_C=-150mA	40		250	
	$h_{FE(2)}$	V_{CE}=-2.0V I_C=-500mA	25			
	$h_{FE(3)}$	V_{CE}=-2.0V I_C=-5.0mA	25			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-500mA I_B=-50mA			-0.5	V
Base to Emitter On Voltage	$V_{BE(on)}$	V_{CE}=-2.0V I_C=-500mA			-1.0	V

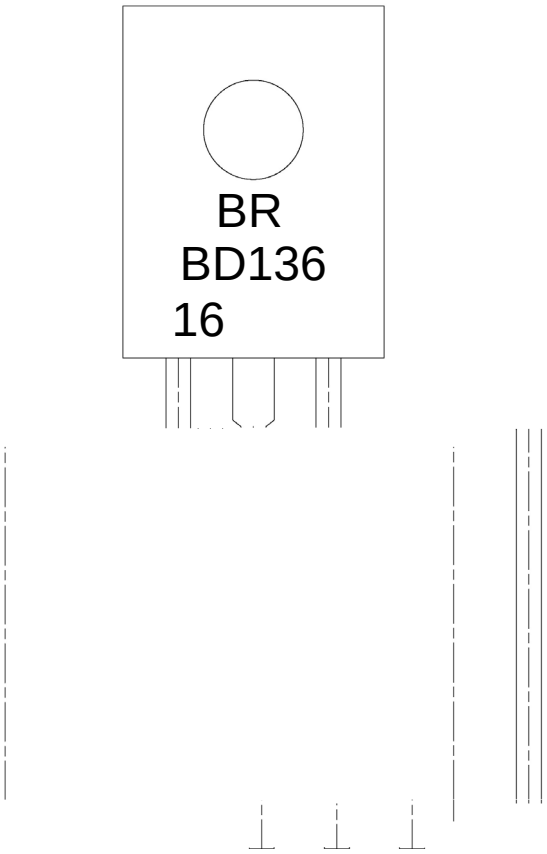

-Ic = 20 IB
-Ic = 10 IB
-150
-100
-50
-0
-1E-3
-0.01
-0.1
-1
-10
Ic[A]


VCE = -2V
hFE
100
90
80
70
60
50
30
20
0
-10
-100
-1000
Ic[mA]
-500
-450
-400
-300
-250
VCE(sat)[mV]


VBE — Ic
-1.1
-0.8
-0.5
VBE[V]
Ic — VCE
-10
Ic MAX (Pulsed)
10μs
-1
IC[A]

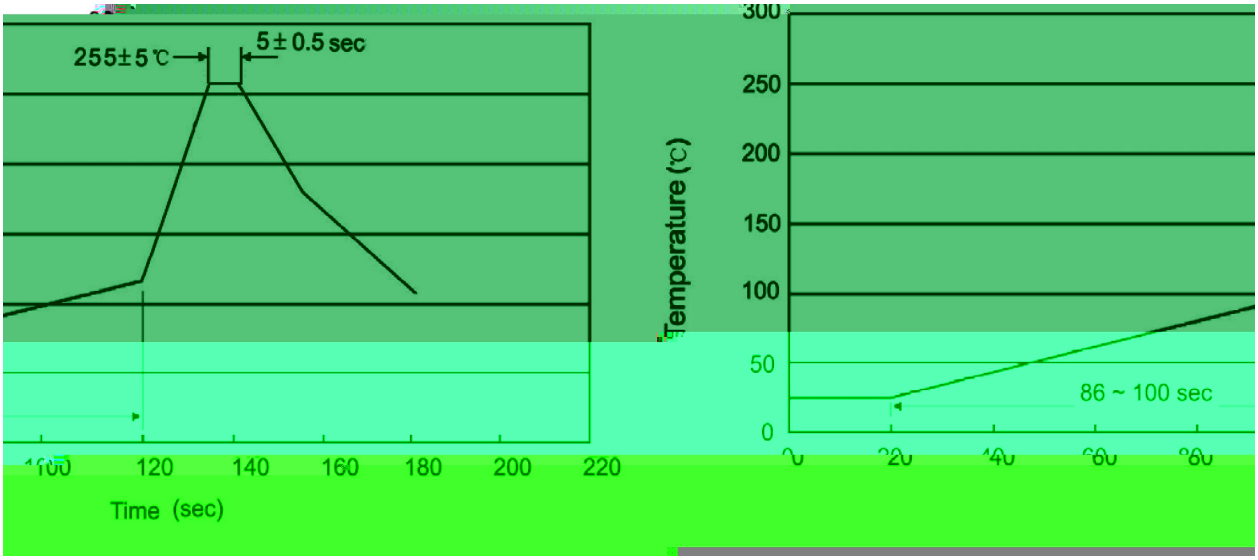

PC — TC
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
PC[W]
0
25
50
75
100
125
150
175
TC[°C]





Note:

BR:	Company Code
BD136:	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	Units	Dimension	(unit mm^3)