/ Descriptions

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

/ Features

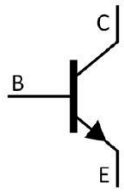
BD178

Complement to BD178.

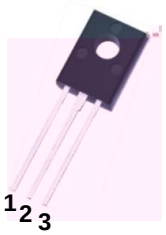
/ Applications

Medium power linear and switching applications.

/ Equivalent Circuit



/ Pinning



PIN1 Emitter PIN 2 Collector PIN 3 Base

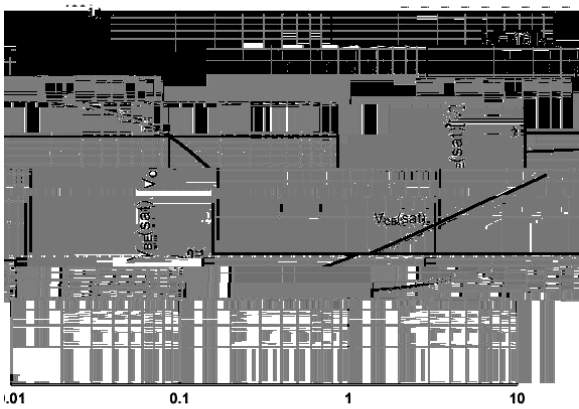
/ h_{FE} Classifications & Marking

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}	60	V
Collector to Emitter Voltage	V_{CEO}	60	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	3.0	A
Collector Current – Continuous(Pulse)	I_{CP}	7.0	A
Collector Power Dissipation	P_C(Tc=25)	30	W
Junction Temperature	T_j		

/ Electrical Characteristic Curve

h_{FE} — I_C

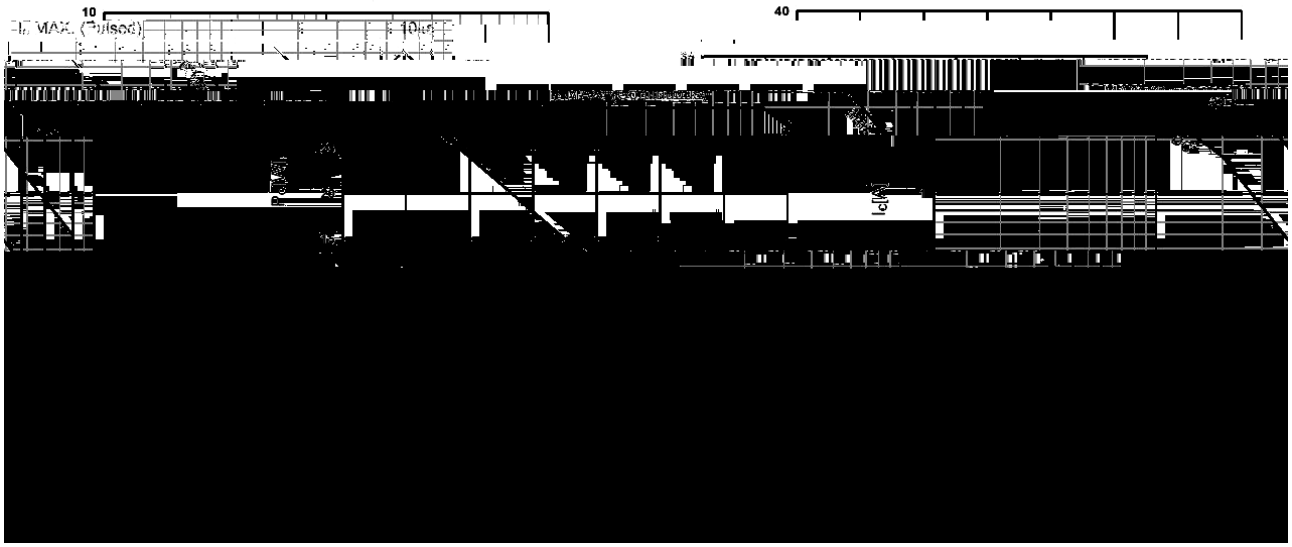


I_C[A]

V_{BE}(sat) — I_C
V_{CE}(sat) — I_C

I_C[A]

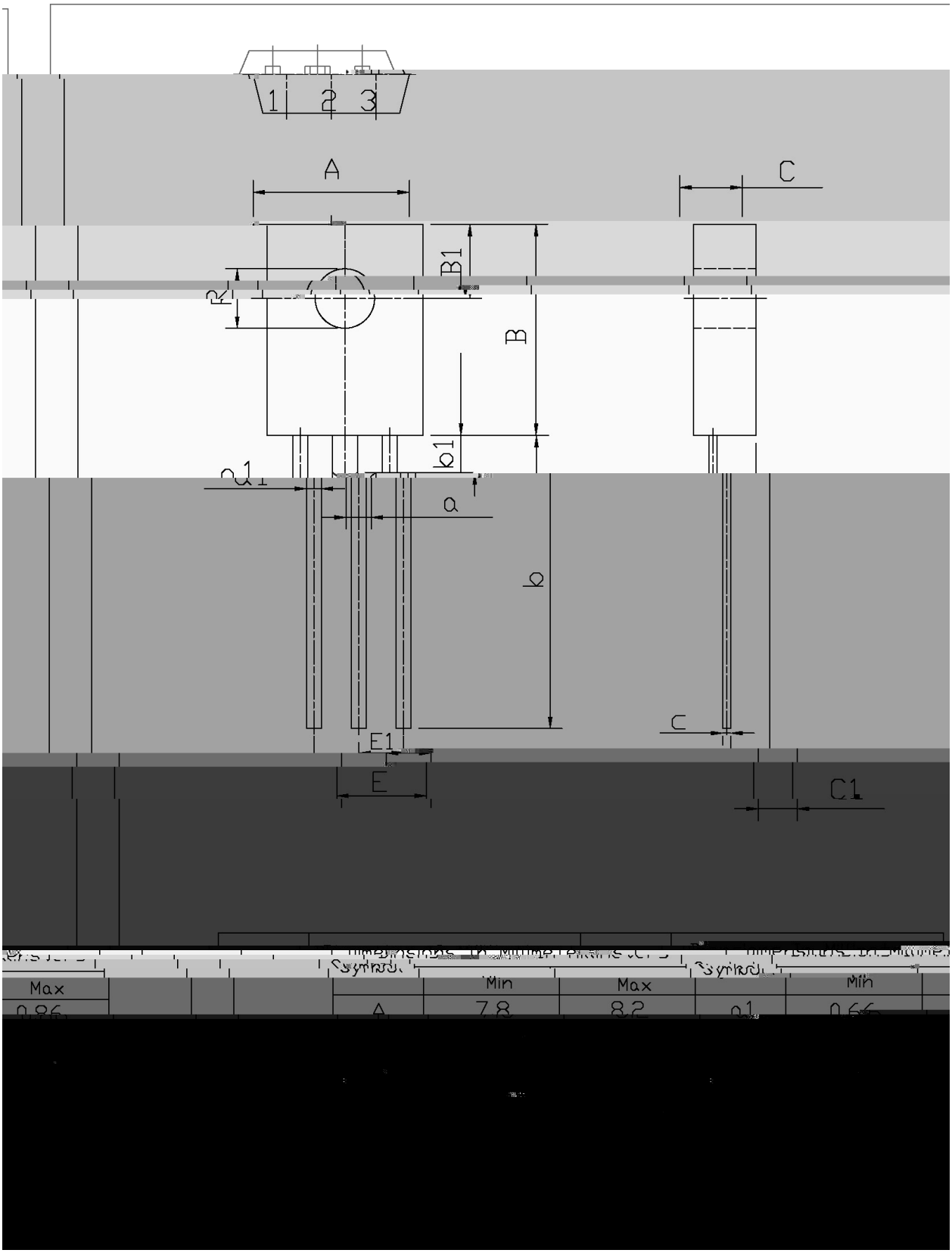
I_C — V_{CE}



P_C — T_C

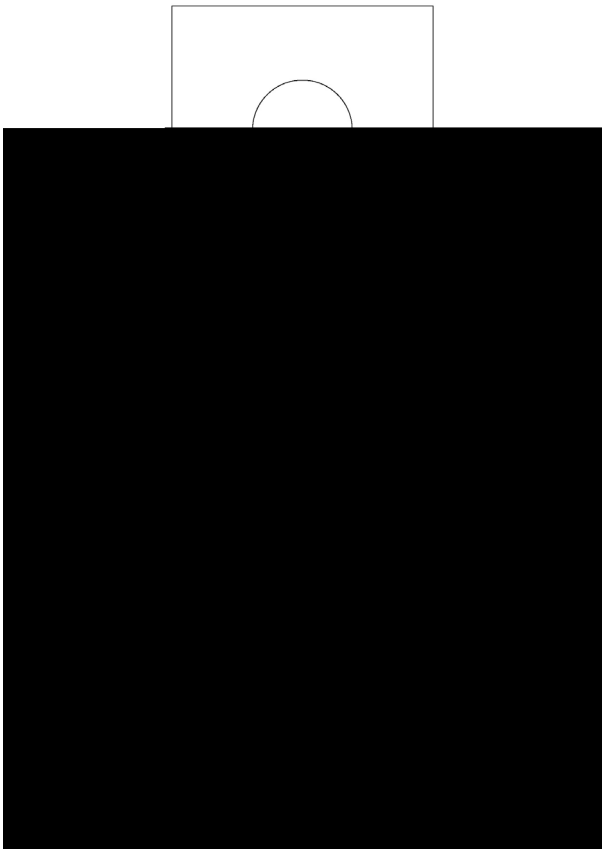
/ Package Dimensions

TO-126F 单位：mm



Symbol	Min	Max	Symbol	Min
A	7.8	8.2	a1	0.66
Max				
0.86				

/ Marking Instructions



BR

BD177

6 h_{FE}

****

Note:

BR: Company Code

BD177: D