

BD177

Rev.E Mar.-2016

/ Descriptions

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

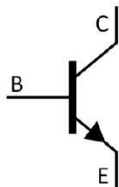
/ Features

BD178
Complement to BD178.

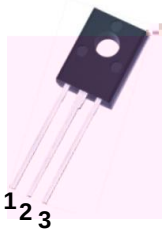
/ Applications

Medium power linear and switching applications.

/ Equivalent Circuit



/ Pinning



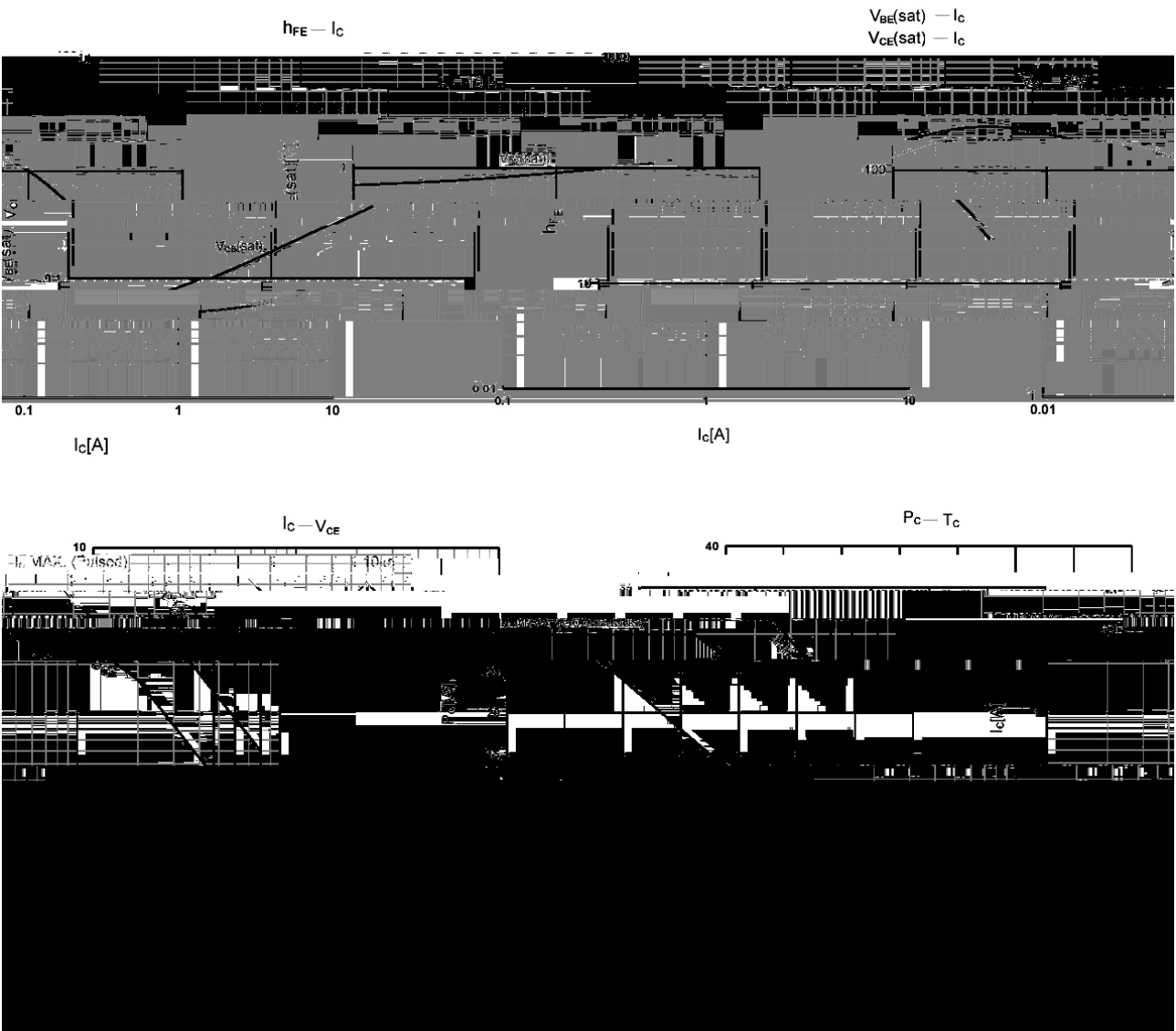
PIN1 Emitter PIN 2 Collector PIN 3 Base

/ 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	$P_C(T_c=25^\circ\text{C})$	30	W
Junction Temperature	T_j		

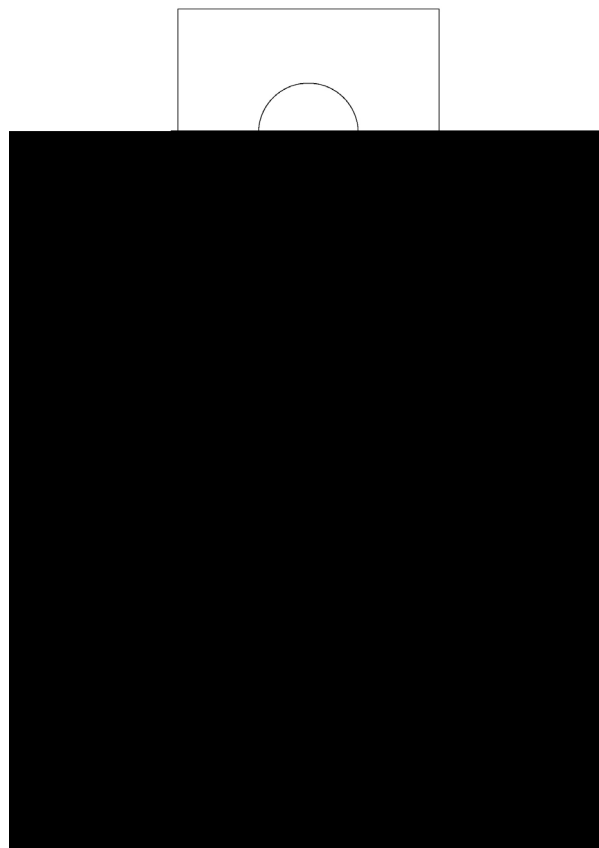
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



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h_{FE}

Note:

BR: Company Code

BD177: D

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DATA SHEET