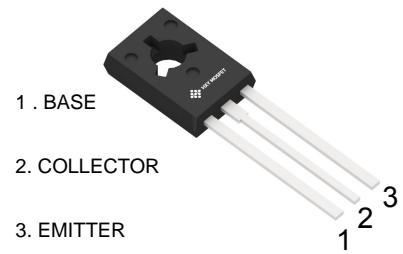




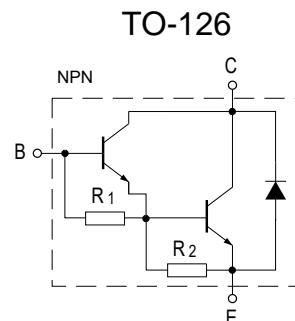
## Features

- Complement To BD680, BD682



## Package Marking and Ordering Information

Product ID	Pack	Packing Method	Qty(PCS)
BD679/BD681	TO-126	Bulk	200



## Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	Limit	Unit
Collector-Base Voltage BD679	V <sub>CBO</sub>	80	V
		100	
Collector-Emitter Voltage BD679	V <sub>CEO</sub>	80	V
		100	
Emitter-Base Voltage	V <sub>EBO</sub>	6	V
Collector Current	I <sub>C</sub>	4	A
Collector Power Dissipation	P <sub>C</sub>	2	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-55~+150	°C

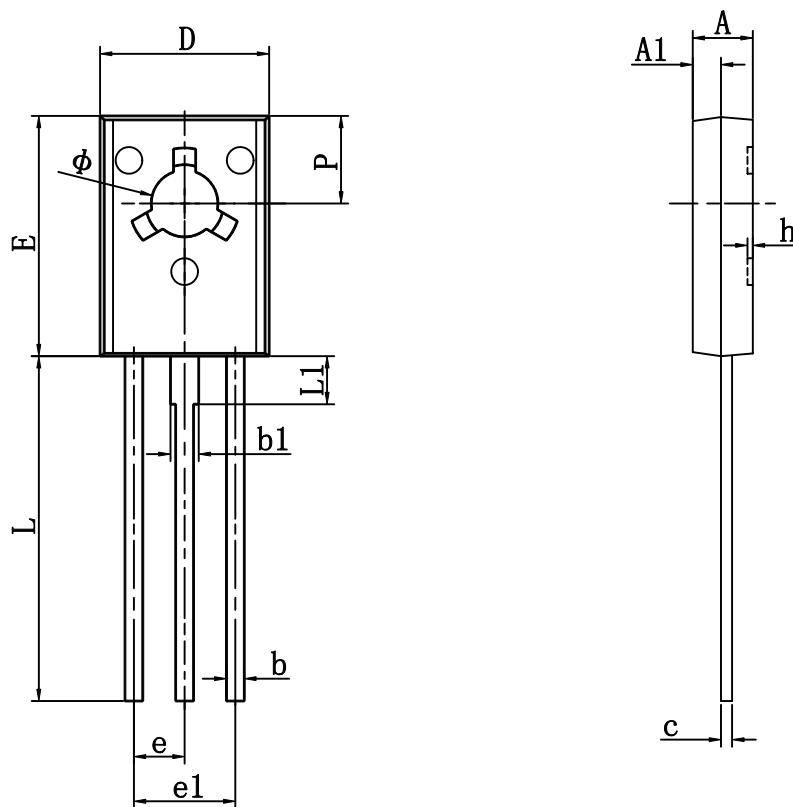


**Electrical Characteristics(Ta=25°C unless otherwise specified)**

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
<b>Collector-base breakdown voltage</b> <b>BD679</b> <b>BD681</b>	$V_{(BR)CBO}$	$I_C = 0.1\text{mA}, I_E = 0$	80 100			V
<b>Collector-emitter breakdown voltage</b> <b>BD679</b> <b>BD681</b>	$V_{(BR)CEO}$	$I_C = 10\text{mA}, I_B = 0$	80 100			V
<b>Base-emitter breakdown voltage</b>	$V_{(BR)EBO}$	$I_E = 1\text{mA}, I_C = 0$	6			V
<b>Collector cut-off current</b>	$I_{CBO}$	$V_{CB} = 100\text{ V}, I_E = 0$			1	uA
<b>Collector cut-off current</b>	$I_{CEO}$	$V_{CE} = 100\text{ V}, I_B = 0$			1	uA
<b>Emitter cut-off current</b>	$I_{EBO}$	$V_{EB} = 10\text{ V}, I_C = 0$		1.3	2.5	mA
<b>DC current gain</b>	$h_{FE(3)}$	$V_{CE} = 5\text{V}, I_C = 2\text{A}$	2000		8000	
<b>Collector-emitter saturation voltage</b>	$V_{CE(\text{sat})}$	$I_C = 3\text{A}, I_B = 12\text{mA}$		1.2	1.8	V



## TO-126 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	2.500	2.900	0.098	0.114
A1	1.100	1.500	0.043	0.059
b	0.660	0.860	0.026	0.034
b1	1.170	1.370	0.046	0.054
c	0.450	0.600	0.018	0.024
D	7.400	7.800	0.291	0.307
E	10.600	11.000	0.417	0.433
e	2.290 TYP		0.090 TYP	
e1	4.480	4.680	0.176	0.184
h	0.000	0.300	0.000	0.012
L	15.300	15.700	0.602	0.618
L1	2.100	2.300	0.083	0.091
P	3.900	4.100	0.154	0.161
Φ	3.000	3.200	0.118	0.126



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