

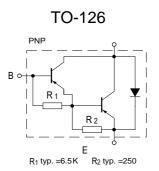
Features

Complement To BD679,681



Package Marking and Ordering Information

Product ID	Pack	Packing Method	Qty(PCS)	
BD680/BD682	TO-126	Bulk	200	



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

Parameter		Symbol	Limit	Unit
Collector-Base Voltage	BD680	V_{CBO}	-80	V
E	3D682		-100	
	BD680 BD682	V_{CEO}	-80 -100	V
Emitter-Base Voltage		V_{EBO}	-6	V
Collector Current		I _C	-4	Α
Collector Power Dissipation		P _C	2	W
Junction Temperature		T_j	150	℃
Storage Temperature		T _{stg}	- 55∼ + 150	℃

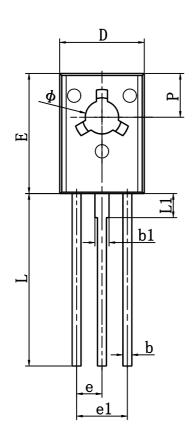


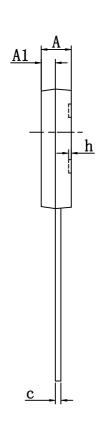
Electrical Characteristics(Ta=25°C unless otherwise specified)

Parameter		Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	BD680 BD682	$V_{(BR)CBO}$	$I_{C}=0.1$ mA, $I_{E}=0$	-80 -100			V
Collector-emitter breakdown voltage	BD680 BD682	$V_{(BR)CEO}$	I _C = 10mA,I _B =0	-80 -100			V
Base-emitter breakdown vo	oltage	$V_{(BR)EBO}$	I _E = 1mA,I _C =0	6			V
Collector cut-off current		I _{CBO}	V _{CB} = 100 V, I _E =0			-1	uA
Collector cut-off current		I _{CEO}	V _{CE} = 100 V, I _B =0			-1	uA
Emitter cut-off current		I _{EBO}	V _{EB} = 10 V, I _C =0		-1.3	-2.5	mA
DC current gain		h _{FE(3)}	V _{CE} = 5V, I _C =2A	2000		8000	
Collector-emitter saturation voltage		V _{CE(sat)}	I _C =3A,I _B =12mA		-1.2	-1.8	V



TO-126 Package Outline Dimensions





Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	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	
С	0.450	0.600	0.018	0.024	
D	7.400	7.800	0.291	0.307	
Е	10.600	11.000	0.417	0.433	
е	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	
Р	3.900	4.100	0.154	0.161	
Ф	3.000	3.200	0.118	0.126	



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