

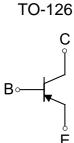
Features

 Low Frequency Power Amplifier Complementary Pair with 2SD669

Package Marking and Ordering Information

Product ID	Pack	Packing Method	Qty(PCS)
2SB649	TO-126	Bulk	200





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

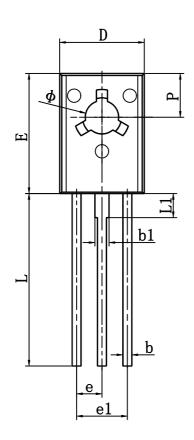
Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	-180	V	
V _{CEO}	Collector-Emitter Voltage	-150	V	
V _{EBO}	Emitter-Base Voltage	-6	V	
lc	Collector Current -Continuous	-1.5	Α	
Pc	Collector Dissipation	1	W	
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C	

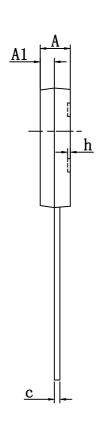
Electrical Characteristics(Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	$I_C = -1 \text{mA}, I_E = 0$	-180			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	CEO I _C =-1mA,I _B =0				٧
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-1mA, I _C =0	-6			V
Collector cut-off current	I _{CBO}	V _{CB} =-180V,I _E =0			-0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =-6V,I _C =0			-0.1	μΑ
DC current gain	h _{FE(1)}	V _{CE} =-5V,I _C =-100mA	60		250	
DC current gain	h _{FE(2)}	V _{CE} =-5V,I _C =-500mA	60		250	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-1.5A,I _B =-0.15A			0.5	V
Transition frequency	f _T	V _{CE} =-5V,I _C =-0.1A,f=10MHz		50		MHz



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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