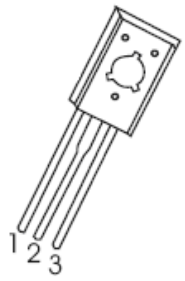
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-126 Plastic-Encapsulate Transistors

2SB649/2SB649A TRANSISTOR (PNP)

TO- 126



FEATURES

Low Frequency Power Amplifier Complementary Pair with 2SD669/A

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-180	V
V_{CEO}	Collector-Emitter Voltage 2SB649 2SB649A	 -120 -160	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current –Continuous	-1.5	A
P_C	Collector Power Dissipation	1	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55-150	℃

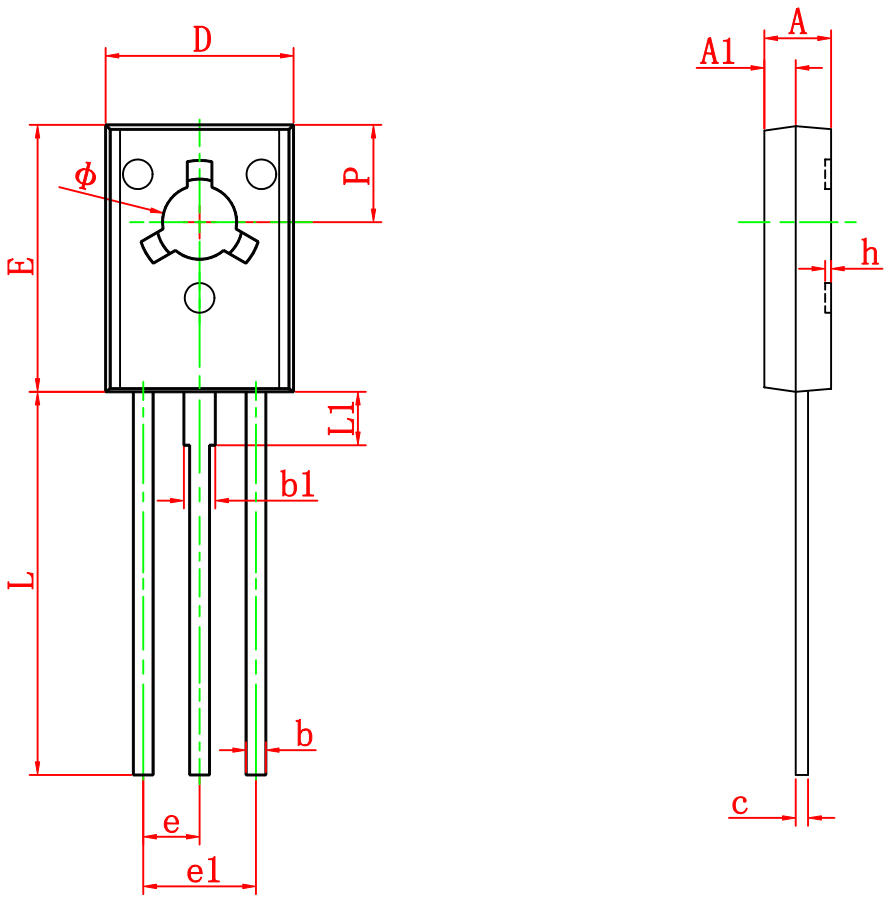
ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C =-1mA,I_E=0		-180			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=-10mA,I_B=0	2SB649 2SB649A	-120 -160			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=-1mA, I_C =0		-5			V
Collector cut-off current	I_{CBO}	V_{CB}=-160V,I_E=0				-10	μA
Emitter cut-off current	I_{EBO}	V_{EB}=-4V,I_C=0				-10	μA
DC current gain	$h_{FE(1)}$	V_{CE}=-5V,I_C=-150mA	2SB649 2SB649A	60 60		320 200	
	$h_{FE(2)}$	V_{CE}=-5V,I_C=-500mA		30			
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-500mA,I_B=-50mA				-1	V
Base-emitter voltage	V_{BE}	V_{CE}=-5V,I_C=-150mA				-1.5	V
Transition frequency	f_T	V_{CE}=-5V,I_C=-150mA			140		MHz
Collector output capacitance	C_{ob}	V_{CB}=-10V,I_E=0,f=1MHz			27		pF

CLASSIFICATION OF $h_{FE(1)}$

Rank		B	C	D
Range	2SB649	60-120	100-200	160-320
	2SB649A	60-120	100-200	

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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