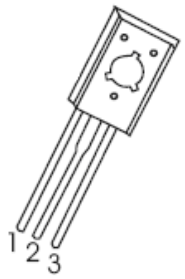
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

TO-126 Plastic-Encapsulate Transistors

2SC1162 TRANSISTOR (NPN)

TO-126

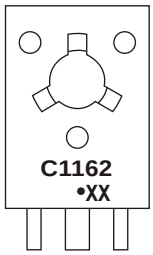
1. EMITTER
2. COLLECOTR
3. BASE



FEATURES

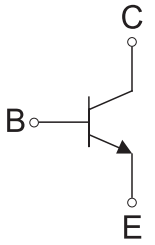
- Low Frequency Power Amplifier

MARKING



C1162=Device code
Solid dot = Green molding compound device, if none, the normal device
XX=Code

Equivalent Circuit



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC1162	TO-126	Bulk	200pcs/Bag
2SC1162-TU	TO-126	Tube	60pcs/Tube

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Emitter Voltage	35	V
V_{CEO}	Collector-Emitter Voltage	35	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current -Continuous	2.5	A
Pc	Collector Power Dissipation	1	W
T_J,T_{stg}	Operation Junction and Storage Temperature Range	-55-150	℃

ELECTRICAL CHARACTERISTICS

T_a=25℃ unless otherwise specified

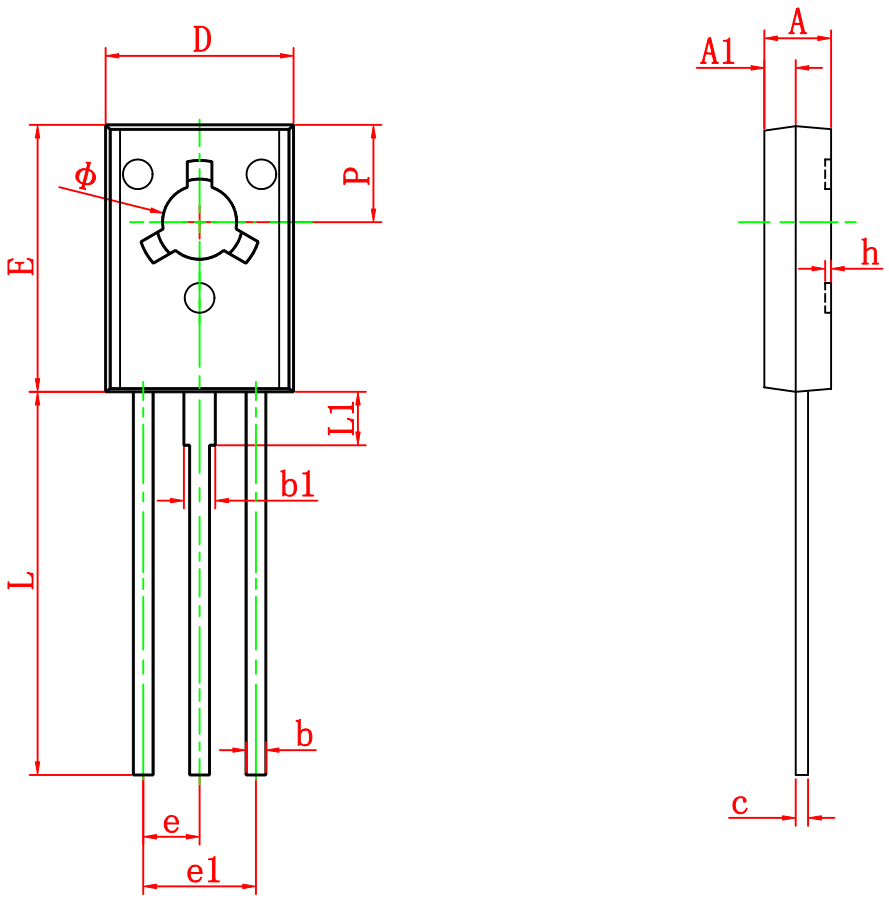
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C =1mA,I_E=0	35			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C =10mA,I_B=0	35			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=1mA ,I_C=0	5			V
Collector cut-off current	I_{CBO}	V_{CB}=35V,I_E=0			20	μA
Emitter cut-off current	I_{EBO}	V_{EB}=5V,I_C=0			20	μA
DC current gain	h_{FE1} *	V_{CE}=2V,I_C=0.5A	60		320	
	h_{FE2} *	V_{CE}=2V,I_C=1.5A	20			
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=2A,I_B=200mA			1	V
Base-collector voltage	V_{BE}	V_{CE}=2V,I_C=1.5A			1.5	V
Transition frequency	f_T	V_{CE}=2V,I_C=200mA		180		MHz

*pulse test

CLASSIFICATION OF h_{FE1}

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

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