

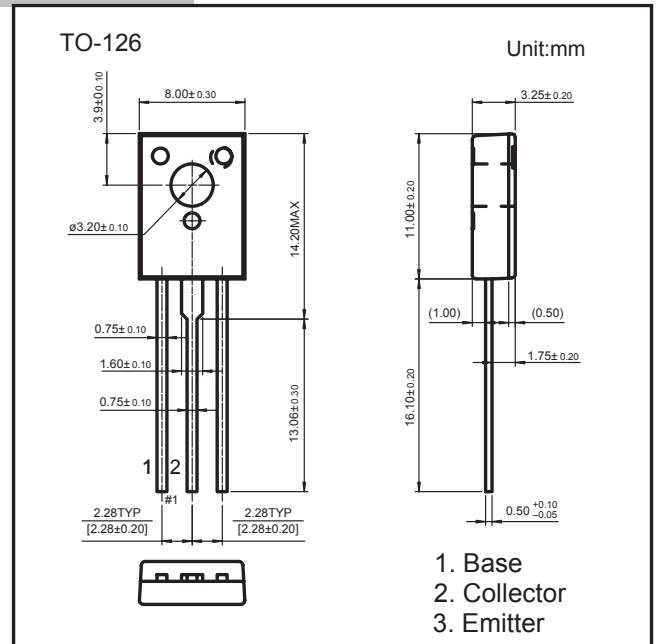
## TO-126 Plastic-Encapsulate Transistors

### FEATURES

- Low Frequency Power Amplifier
- TRANSISTOR (NPN)

### MECHANICAL DATA

- Case style: TO-126 molded plastic
- Mounting position: any



## MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CB0</sub>	Collector-Emitter Voltage	35	V
V <sub>CEO</sub>	Collector-Emitter Voltage	35	V
V <sub>EBO</sub>	Emitter-Base Voltage	5	V
I <sub>C</sub>	Collector Current -Continuous	2.5	A
P <sub>C</sub>	Collector Power Dissipation	1	W
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature	-55-150	°C

### ORDERING INFORMATION

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> = 1mA, I <sub>E</sub> = 0	35			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> = 10mA, I <sub>B</sub> = 0	35			V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> = 1mA, I <sub>C</sub> = 0	5			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> = 35V, I <sub>E</sub> = 0			20	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = 5V, I <sub>C</sub> = 0			20	μA
DC current gain	h <sub>FE1</sub>	V <sub>CE</sub> = 2V, I <sub>C</sub> = 0.5A	60		320	
	h <sub>FE2</sub>	V <sub>CE</sub> = 2V, I <sub>C</sub> = 1.5A	20			
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> = 2A, I <sub>B</sub> = 200mA			1	V
Base-collector voltage	V <sub>BE</sub>	V <sub>CE</sub> = 2V, I <sub>C</sub> = 1.5A			1.5	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = 2V, I <sub>C</sub> = 200mA		180		MHz

-pulse test

### CLASSIFICATION OF h<sub>FE1</sub>

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

Type	2SC1162
Marking	C1162