

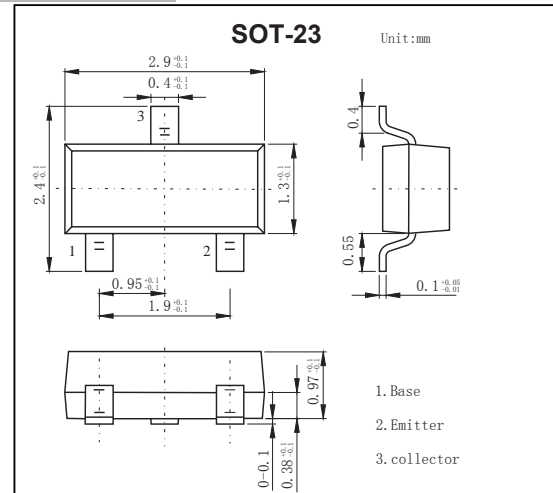
## SOT-23 Plastic-Encapsulate Transistors

### FEATURES

- Complementary to 2SC1623
- High voltage and high current  
V<sub>CEO</sub> = -50V (min.), I<sub>C</sub> = -150mA (max.)
- Low noise: NF = 1dB (Typ.) at f = 1KHz
- PNP TRANSISTORS
- Collector-Base Voltage: V<sub>CB0</sub> = -60V

### MECHANICAL DATA

- Case style: SOT-23 molded plastic
- Mounting position: any



## MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V <sub>CB0</sub>	-50	V
Collector-Emitter Voltage	V <sub>CEO</sub>	-50	V
Emitter-Base Voltage	V <sub>EB0</sub>	-5	V
Collector Current -Continuous	I <sub>C</sub>	-150	mA
Collector Power Dissipation	P <sub>C</sub>	200	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-55 to 150	°C

### PACKAGE INFORMATION

Device	Package	Shipping
2SA1015	SOT-23	3000/Tape&Reel

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V <sub>CB0</sub>	I <sub>C</sub> = -100 μA, I <sub>E</sub> = 0	-50			V
Collector-emitter breakdown voltage	V <sub>CEO</sub>	I <sub>C</sub> = -0.1mA, I <sub>B</sub> = 0	-50			V
Emitter-base breakdown voltage	V <sub>EB0</sub>	I <sub>E</sub> = -100 μA, I <sub>C</sub> = 0	-5			V
Collector cut-off current	I <sub>CB0</sub>	V <sub>CB</sub> = -50V, I <sub>E</sub> = 0			-0.1	μA
Collector cut-off current	I <sub>CEO</sub>	V <sub>CE</sub> = -50V, I <sub>B</sub> = 0			-0.1	μA
Emitter cut-off current	I <sub>EB0</sub>	V <sub>EB</sub> = -5V, I <sub>C</sub> = 0			-0.1	μA
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = -6V, I <sub>C</sub> = -2mA	130		400	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> = -100 mA, I <sub>B</sub> = -10mA			-0.3	V
Base-emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> = -100 mA, I <sub>B</sub> = -10mA			-1.1	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = -10V, I <sub>C</sub> = -1mA, f = 30MHz	80			MHz

### h<sub>FE</sub> Classification

Type	2SA1015-L	2SA1015-H
Range	130-200	200-400
Marking	BAL	BA