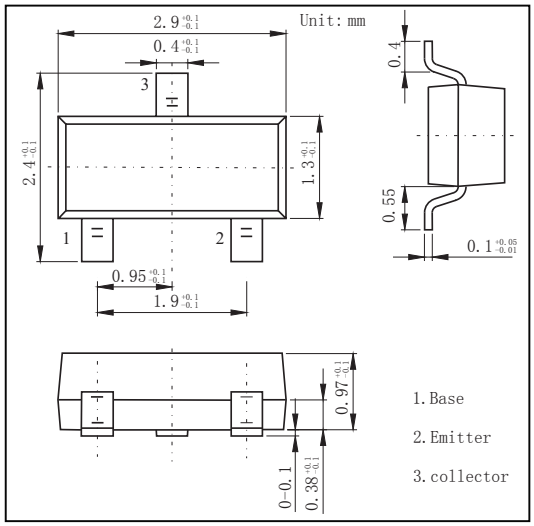
SOT-23 Plastic-Encapsulate Transistors

FEATURES

- High current transition frequency
- Low output capacitance:C_{ob}=1.4pF
- Low base time constant and high gain
- Excellent noise response
- General small signal amplifier

MECHANICAL DATA

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



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Value	Units
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CEO}	20	V
Emitter-Base Voltage	V_{EBO}	4	V
Collector Current	I_C	20	mA
Collector Dissipation	P_C	150	mW
Junction and Storage Temperature	T_j,T_{stg}	-55 to +150	℃

Parameter	Symbol	Test Conditons	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=10μA,I_E=0	30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=5mA,I_B=0	20			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=10μA,I_C=0	4			V
Collector cut-off current	I_{CBO}	V_{CB}=30V,I_E=0			0.5	μA
Emitter cut-off current	I_{EBO}	V_{EB}=4V,I_C=0			0.5	μA
DC current gain	h_{FE}	V_{CE}=6V,I_C=1mA	40		240	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=10mA, I_B=1mA			0.3	V
Transition frequency	f_T	V_{CE}=6V, I_E=-1mA		550		MHz
Output capacitance	C_{ob}	V_{CB}=6V, I_E=0,f=1MHz		1.4		pF

RATINGS AND CHARACTERISTIC CURVES