

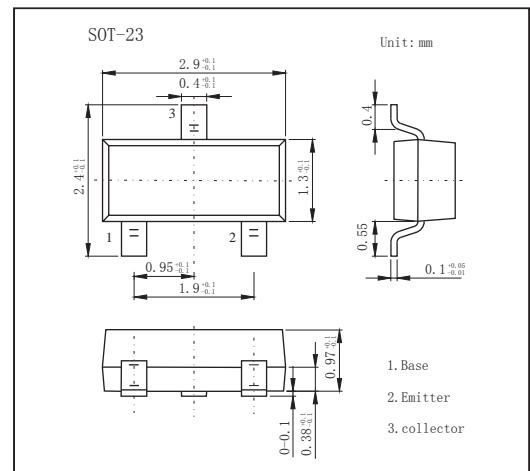
SOT-23 Plastic-Encapsulate Transistors

FEATURES

- High Voltage
- NPN Transistors

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 _{CB0}	180	V
Collector-emitter voltage	V _{CEO}	160	V
Emitter-base voltage	V _{EB0}	6	V
Collector current-continuous	I _C	0.6	A
Collector Power Dissipation	P _C	300	mW
Junction and storage temperature	T _J , T _{stg}	-55 to +150	°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{CB0}	I _C = 100μA, I _E = 0	180			V
Collector-emitter breakdown voltage *	V _{CEO}	I _C = 1.0 mA, I _B = 0	160			V
Emitter-base breakdown voltage	V _{EB0}	I _E = 10μA, I _C = 0	6			V
Collector cutoff current	I _{CB0}	V _{CB} = 120 V, I _E = 0			50	nA
Emitter cutoff current	I _{EB0}	V _{EB} = 4.0V, I _C = 0			50	nA
DC current gain *	h _{FE}	I _C = 1.0 mA, V _{CE} = 5 V	80			
		I _C = 10 mA, V _{CE} = 5 V	100		300	
		I _C = 50 mA, V _{CE} = 5 V	50			
Collector-emitter saturation voltage *	V _{CE(sat)}	I _C = 50 mA, I _B = 5.0 mA			0.5	V
Base-emitter saturation voltage *	V _{BE(sat)}	I _C = 50 mA, I _B = 5.0 mA			1.0	V
Transistor frequency	f _r	V _{CE} =10V, I _C =10mA, f=100MHz	100			MHz

* Pulse Test: Pulse Width = 300 μs, Duty Cycle=2.0%.

RATINGS AND CHARACTERISTIC CURVES

