



HFZT

BCW61A/B/C/D

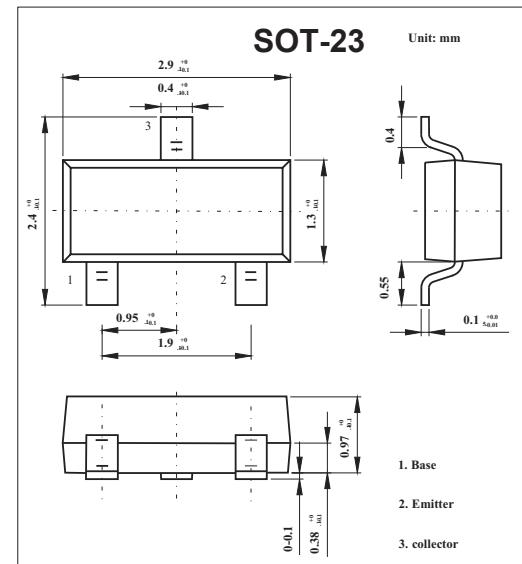
SOT-23 Plastic-Encapsulate Transistors

Features

- PNP Epitaxial Silicon Transistor

MECHANICAL DATA

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



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-32	V
Collector-Emitter Voltage	V _{CEO}	-32	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-100	mA
Collector Power Dissipation	P _C	350	mW
Storage Temperature	T _{STG}	-55 to +150	°C

PACKAGE INFORMATION

Device	Package	Shipping
BCW61A/B/C/D	SOT-23	3000/Tape&Reel

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cutoff current	I _{CBO}	I _E = 0; V _{CB} = -32 V			-20	nA
	I _{CBO}	I _E = 0; V _{CB} = -32 V; T _{amb} = 150 °C			-20	µA
Emitter cutoff current	I _{EBO}	I _C = 0; V _{EB} = -4 V			-20	nA
DC current gain	BCW61B	h _{FE} I _C = -10µA; V _{CE} = -5 V	30			
	BCW61C		40			
	BCW61D		100			
DC current gain	BCW61B	h _{FE} I _C = -2 mA; V _{CE} = -5 V	180		310	
	BCW61C		250		460	
	BCW61D		380		630	
DC current gain	BCW61B	h _{FE} I _C = -50 mA; V _{CE} = -5 V	80			
	BCW61C		100			
	BCW61D		110			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -10 mA; I _B = -0.25 mA	-60		-250	mV
		I _C = -50 mA; I _B = -1.25 mA	-120		-550	mV
Base to emitter saturation voltage	V _{BE(sat)}	I _C = -10 mA; I _B = -0.25 mA	-600		-850	mV
		I _C = -50 mA; I _B = -1.25 mA	-0.68		-1.05	V
Base to emitter voltage	V _{BE}	I _C = -2 mA; V _{CE} = -5 V	-600	-650	-750	mV
Collector capacitance	C _C	I _E = i _e = 0; V _{CB} = -10 V; f = 1 MHz		4.5		pF
Emitter capacitance	C _E	I _C = i _c = 0; V _{EB} = -0.5 V; f = 1 MHz		11		pF
Transition frequency *	f _T	I _C = -10 mA; V _{CE} = -5 V; f = 100 MHz	100			MHz
Noise figure	NF	I _C = -200 µA; V _{CE} = -5 V; R _s = 2 kΩ; f = 1 kHz; B = 200 Hz		2	6	dB

* Pulse test: tp ≤ 300 µs; d ≤ 0.02.

Marking

TYPE	BCW61A	BCW61B	BCW61C	BCW61D
Marking	BA	BB	BC	BD