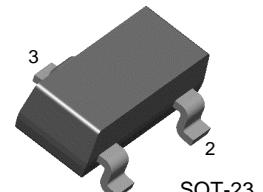


## BCW61A/B/C/D

### General Purpose Transistor

SOT-23  
1. Base 2. Emitter 3. Collector

### PNP Epitaxial Silicon Transistor

#### Absolute Maximum Ratings $T_a=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
$V_{CBO}$	Collector-Base Voltage	-32	V
$V_{CEO}$	Collector-Emitter Voltage	-32	V
$V_{EBO}$	Emitter-Base Voltage	-5.0	V
$I_C$	Collector Current	-100	mA
$P_C$	Collector Power Dissipation	350	mW
$T_{STG}$	Storage Temperature	-55 ~ 150	°C

• Refer to KST5086 for graphs

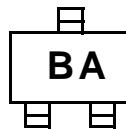
**Electrical Characteristics**  $T_a=25^\circ\text{C}$  unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
$BV_{CEO}$	Collector-Emitter Breakdown Voltage	$I_C = -2\text{mA}$ , $I_B = 0$	-32		
$BV_{EBO}$	Emitter-Base Breakdown Voltage	$I_E = -1\mu\text{A}$ , $I_C = 0$	-5		
$I_{CES}$	Collector Cut-off Current	$V_{CB} = -32\text{V}$ , $V_{BE} = 0$		-20	
$h_{FE}$	DC Current Gain : BCW61B : BCW61C : BCW61D : BCW61A : BCW61B : BCW61C : BCW61D : BCW61A : BCW61B : BCW61C : BCW61D	$V_{CE} = -5\text{V}$ , $I_C = -10\mu\text{A}$ $V_{CE} = -5\text{V}$ , $I_C = -2\text{mA}$ $V_{CE} = -5\text{V}$ , $I_C = -50\text{mA}$	20 40 100 120 140 250 380 60 80 100	220 310 460 630	V V nA
$V_{CE}(\text{sat})$	Collector-Emitter Saturation Voltage	$I_C = -50\text{mA}$ , $I_B = -1.25\text{mA}$ $I_C = -10\text{mA}$ , $I_B = -0.25\text{mA}$		-0.55 -0.25	V V
$V_{BE}(\text{sat})$	Base-Emitter Saturation Voltage	$I_C = -50\text{mA}$ , $I_B = -1.25\text{mA}$ $I_C = -10\text{mA}$ , $I_B = -0.25\text{mA}$	0.68 0.6	1.05 0.85	V V
$V_{BE}(\text{on})$	Base-Emitter On Voltage	$V_{CE} = -5\text{V}$ , $I_C = -2\text{mA}$	0.6	0.75	V
$C_{ob}$	Output Capacitance	$V_{CB} = -10\text{V}$ , $I_E = 0$ $f = 1\text{MHz}$		6	pF
NF	Noise Figure	$I_C = -0.2\text{mA}$ , $V_{CE} = -5\text{V}$ $R_G = 20\text{K}\Omega$ , $f = 1\text{KHz}$		6	dB
$t_{ON}$	Turn On Time	$I_C = -10\text{mA}$ , $I_{B1} = -1\text{mA}$		150	ns
$t_{OFF}$	Turn Off Time	$V_{BB} = -3.6\text{V}$ , $B22 = -1\text{mA}$ $R1 = R2 = 5.0\text{K}\Omega$ , $R_L = 990\Omega$		800	ns

**Marking Code**

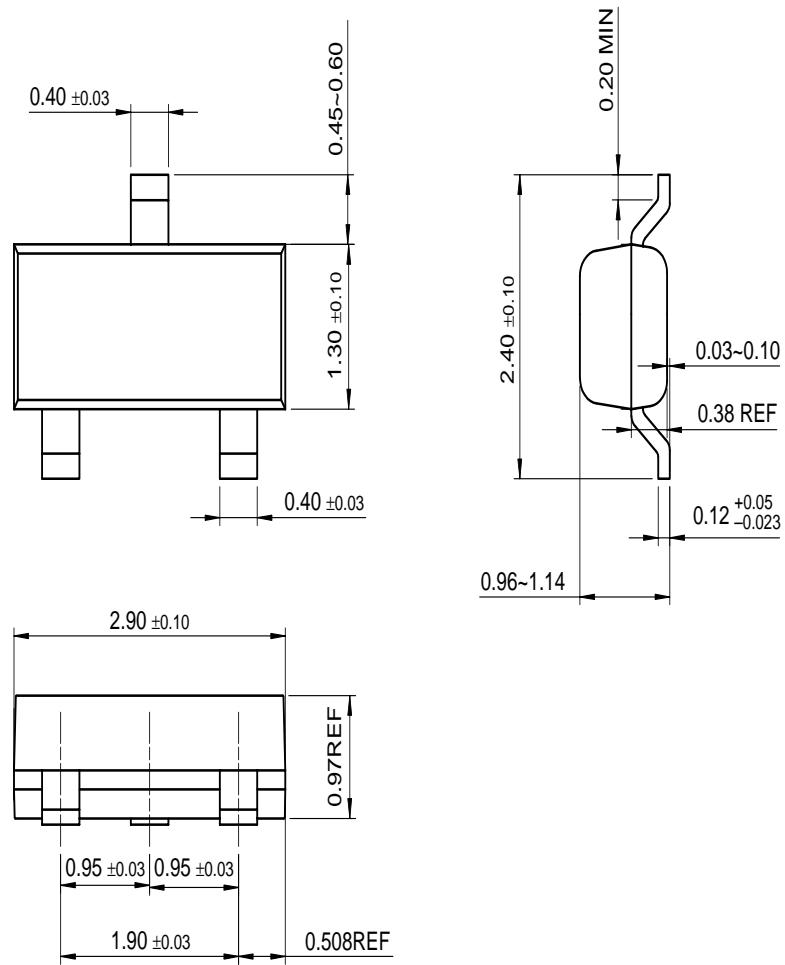
Type	BCW61A	BCW61B	BCW61C	BCW61D
Mark.	BA	BB	BC	BD

Marking



## Package Demensions

SOT-23



Dimensions in Millimeters

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