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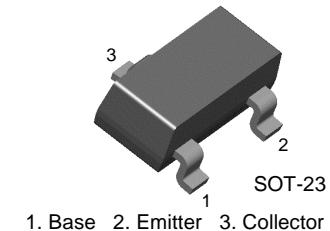
sales@integrated-circuit.com

BCW61A/B/C/D



BCW61A/B/C/D

General Purpose Transistor



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

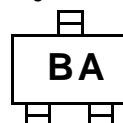
Electrical Characteristics $T_a=25^\circ\text{C}$ unless otherwise noted

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	$V_{\text{CB}} = -32\text{V}, V_{\text{BE}} = 0$		-20	
h_{FE}	DC Current Gain : BCW61B : BCW61C : BCW61D : BCW61A : BCW61B : BCW61C : BCW61D : BCW61A : BCW61B : BCW61C : BCW61D	$V_{\text{CE}} = -5\text{V}, I_C = -10\mu\text{A}$ $V_{\text{CE}} = -5\text{V}, I_C = -2\text{mA}$ $V_{\text{CE}} = -5\text{V}, I_C = -50\text{mA}$	20 40 100 120 140 250 380 60 80 100 100	220 310 460 630	V nA
	$V_{\text{CE}} (\text{sat})$	$I_C = -50\text{mA}, I_B = -1.25\text{mA}$ $I_C = -10\text{mA}, I_B = -0.25\text{mA}$		-0.55 -0.25	V V
	$V_{\text{BE}} (\text{sat})$	$I_C = -50\text{mA}, I_B = -1.25\text{mA}$ $I_C = -10\text{mA}, I_B = -0.25\text{mA}$	0.68 0.6	1.05 0.85	V V
	$V_{\text{BE}} (\text{on})$	$V_{\text{CE}} = -5\text{V}, I_C = -2\text{mA}$	0.6	0.75	V
	C_{ob}	$V_{\text{CB}} = -10\text{V}, I_E = 0$ $f = 1\text{MHz}$		6	pF
	NF	$I_C = -0.2\text{mA}, V_{\text{CE}} = -5\text{V}$ $R_G = 20\text{K}\Omega, f = 1\text{KHz}$		6	dB
t_{ON}	Turn On Time	$I_C = -10\text{mA}, I_B = -1\text{mA}$		150	ns
t_{OFF}	Turn Off Time	$V_{\text{BB}} = -3.6\text{V}, B22 = -1\text{mA}$ $R1 = R2 = 5.0\text{K}\Omega, R_L = 990\Omega$		800	ns

Marking Code

Type	BCW61A	BCW61B	BCW61C	BCW61D
Mark.	BA	BB	BC	BD

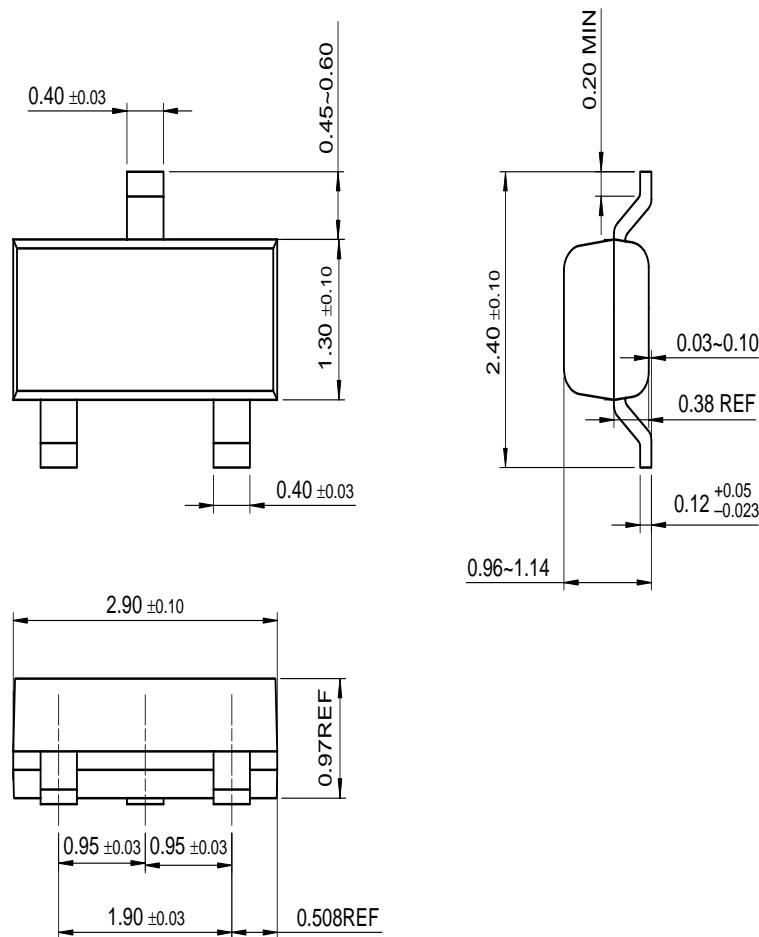
Marking



BCW61A/B/C/D

Package Demensions

SOT-23



Dimensions in Millimeters

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