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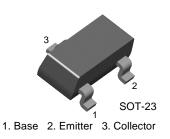
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SEMICONDUCTOR®

### BCW61A/B/C/D

#### **General Purpose Transistor**



## **PNP Epitaxial Silicon Transistor**

Absolute Maximum Ratings  $T_a=25$  °C unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>CBO</sub>	Collector-Base Voltage	-32	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-32	V
V <sub>EBO</sub>	Emitter-Base Voltage	-5.0	V
I <sub>C</sub>	Collector Current	-100	mA
P <sub>C</sub>	Collector Power Dissipation	350	mW
T <sub>STG</sub>	Storage Temperature	-55 ~ 150	°C

• Refer to KST5086 for graphs

BCW61A/B/C/D

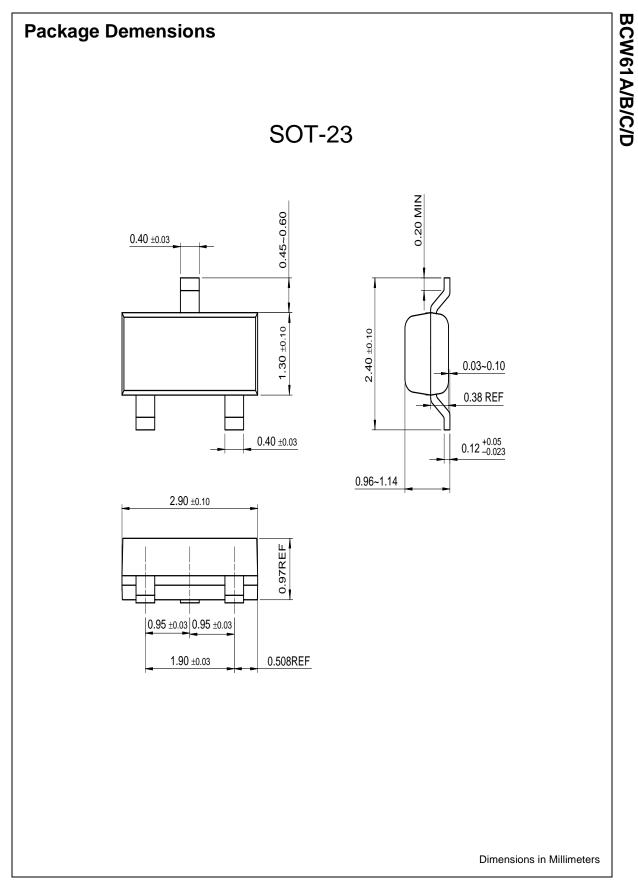
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -2mA, I <sub>B</sub> =0	-32		
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = -1μΑ, I <sub>C</sub> =0	-5		
I <sub>CES</sub>	Collector Cut-off Current	V <sub>CB</sub> = -32V, V <sub>BE</sub> =0		-20	
h <sub>FE</sub>	DC Current Gain : BCW61B : BCW61C : BCW61D : BCW61A : BCW61B : BCW61C : BCW61D : BCW61A : BCW61B : BCW61B : BCW61B : BCW61C : BCW61D	$V_{CE}$ = -5V, I <sub>C</sub> = -10µA $V_{CE}$ = -5V, I <sub>C</sub> = -2mA $V_{CE}$ = -5V, I <sub>C</sub> = -50mA	20 40 100 120 140 250 380 60 80 100 100	220 310 460 630	V V nA
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -50mA, I <sub>B</sub> = -1.25mA I <sub>C</sub> = -10mA, I <sub>B</sub> = -0.25mA		-0.55 -0.25	V V
V <sub>BE</sub> (sat)	Base-Emitter Saturation Voltage	I <sub>C</sub> = -50mA, I <sub>B</sub> = -1.25mA I <sub>C</sub> = -10mA, I <sub>B</sub> = -0.25mA	0.68 0.6	1.05 0.85	V V
V <sub>BE</sub> (on)	Base-Emitter On Voltage	V <sub>CE</sub> = -5V, I <sub>C</sub> = -2mA	0.6	0.75	V
C <sub>ob</sub>	Output Capacitance	V <sub>CB</sub> = -10V, I <sub>E</sub> =0 f=1MHz		6	pF
NF	Noise Figure	I <sub>C</sub> = -0.2mA, V <sub>CE</sub> = -5V R <sub>G</sub> =20KΩ, f=1KHz		6	dB
t <sub>ON</sub>	Turn On Time	I <sub>C</sub> = -10mA, I <sub>B1</sub> = -1mA		150	ns
t <sub>OFF</sub>	Turn Off Time	V <sub>BB</sub> = -3.6V, B22= -1mA R1=R2=5.0KΩ, R <sub>1</sub> =990Ω		800	ns

## Marking Code

Туре	BCW61A	BCW61B	BCW61C	BCW61D
Mark.	BA	BB	BC	BD



BCW61A/B/C/D



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