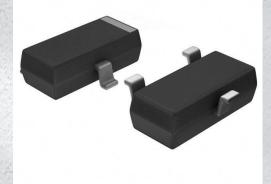


# **BCW61CMTF** Datasheet

www.digi-electronics.com



DiGi Electronics Part Number	BCW61CMTF-DG
Manufacturer	onsemi
Manufacturer Product Number	BCW61CMTF
Description	TRANS PNP 32V 0.1A SOT23-3
Detailed Description	Bipolar (BJT) Transistor PNP 32 V 100 mA 350 mW S urface Mount SOT-23-3

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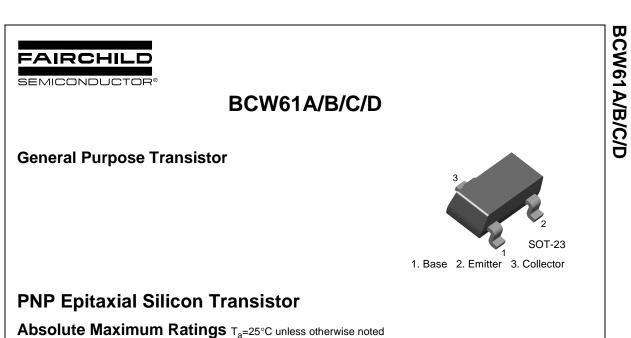


# Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
BCW61CMTF	onsemi
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
PNP	100 mA
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
32 V	550mV @ 1.25mA, 50mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ lc, Vce:
20nA	250 @ 2mA, 5V
Power - Max:	Frequency - Transition:
350 mW	
Operating Temperature:	Mounting Type:
	Surface Mount
Package / Case:	Supplier Device Package:
TO-236-3, SC-59, SOT-23-3	SOT-23-3
Base Product Number:	
BCW61	

# **Environmental & Export classification**

Moisture Sensitivity Level (MSL):	REACH Status:
1 (Unlimited)	REACH Unaffected
ECCN:	HTSUS:
EAR99	8541.21.0095



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

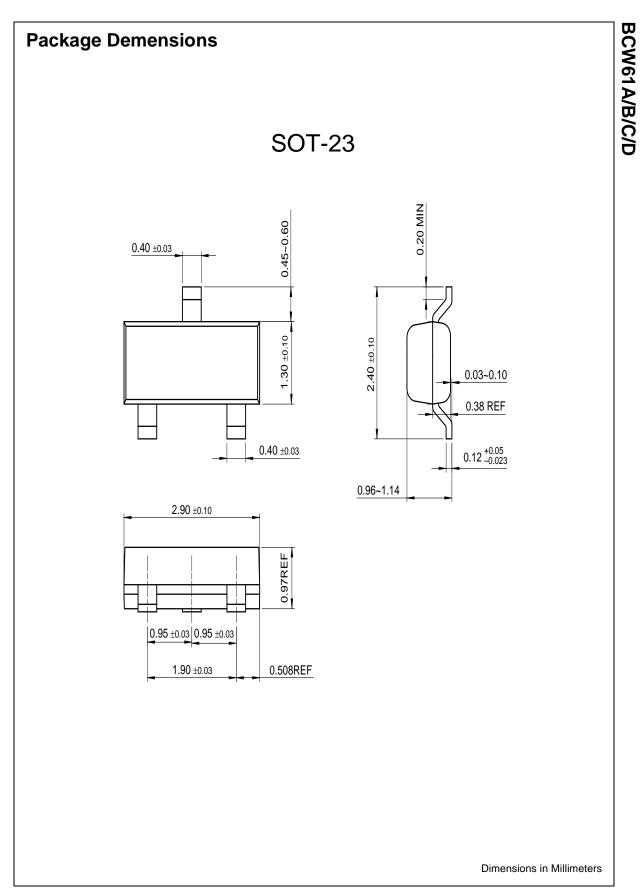
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -2mA, I <sub>B</sub> =0	-32		
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = -1μΑ, I <sub>C</sub> =0	-5		
I <sub>CES</sub>	Collector Cut-off Current	V <sub>CB</sub> = -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
<sup>t</sup> ON	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>L</sub> =990Ω		800	ns

# Marking Code

Туре	BCW61A	BCW61B	BCW61C	BCW61D
Mark.	BA	BB	BC	BD



# BCW61A/B/C/D



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CROSSVOLT™	GlobalOptoisolator™	Power247™	SuperSOT™-6
DenseTrench™	GTO™	PowerTrench <sup>®</sup>	SuperSOT™-8
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EcoSPARK™	ISOPLANAR™	QS™	TruTranslation™
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EnSigna™	MicroFET™	Quiet Series™	UHC™
FACT™	MICROWIRE™	SLIENT SWITCHER <sup>®</sup>	UltraFET®
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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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Datasheet Identification	Product Status	Definition
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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.



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