

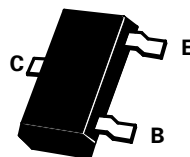
SOT23 PNP SILICON PLANAR SMALL SIGNAL TRANSISTORS

BCW29
BCW30

ISSUE 3 - JULY 1995

PARTMARKING DETAILS - BCW29 - C1
BCW30 - C2
BCW29R - C4
BCW30R - C5

COMPLEMENTARY TYPES - BCW29 - BCW31
BCW30 - BCW32



SOT23

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	-30	V
Collector-Emitter Voltage	V_{CEO}	-30	V
Emitter-Base Voltage	V_{EBO}	-20	V
Peak Pulse Current	I_{CM}	-5	A
Continuous Collector Current	I_C	-100	A
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	330	mW
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +150	$^{\circ}C$

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$ unless otherwise stated).

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Base - Emitter Voltage	V_{BE}	-600		-750	mV	$I_C=-2mA, V_{CE}=-5V$
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$		-80 -150	250	mV mV	$I_C=-10mA, I_B=-0.5mA$ $I_C=-50mA, I_B=-2.5mA$
Base-Emitter Saturation Voltage	$V_{BE(SAT)}$		-720 -810		mV mV	$I_C=-10mA, I_B=-0.5mA$ $I_C=-50mA, I_B=-2.5mA$
Collector- Base Cut-Off Current	I_{CBO}			-100 -10	nA μA	$I_E=0, V_{CB}=-20V$ $I_E=0, V_{CB}=-20V,$ $T_j=100^{\circ}C$
Static Forward Current Transfer Ratio	BCW29	h_{FE}	120	90		$I_C=-10\mu A, V_{CE}=-5V$ $I_C=-2mA, V_{CE}=-5V$
	BCW30	h_{FE}	215	150		$I_C=-10\mu A, V_{CE}=-5V$ $I_C=-2mA, V_{CE}=-5V$
Transition Frequency	f_T		150		MHz	$I_C=-10mA, V_{CE}=-5V$ $f = 35MHz$
Collector Capacitance	C_{TC}			7	pF	$I_E=I_E=0, V_{CB}=-10V$ $f = 1MHz$
Noise Figure	N			10	dB	$I_C=-200mA, V_{CE}=-5V$ $R_S=2K\Omega, f=1KHz$ $B=200Hz$

*Measured under pulsed conditions. Pulse width=300 μs . Duty cycle $\leq 2\%$
Spice parameter data is available upon request for this device

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Diodes Incorporated:](#)

[BCW29RTA](#) [BCW29RTC](#) [BCW29TA](#) [BCW29TC](#) [BCW30RTA](#) [BCW30RTC](#) [BCW30TA](#) [BCW30TC](#)