

[查询BCW68FR供应商](#)

[捷多邦，专业PCB打样工厂，24小时加](#)

[急出货](#)

SOT23 PNP SILICON PLANAR MEDIUM POWER TRANSISTOR

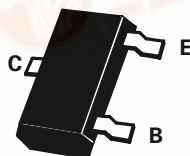
BCW68

ISSUE 5 - MARCH 2001

PARTMARKING DETAILS –

BCW68F –	DF	BCW68FR –	7T
BCW68G –	DG	BCW68GR –	5T
BCW68H –	DH	BCW68HR –	7N

COMPLEMENTARY TYPES – BCW66



SOT23

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Emitter Voltage	V_{CES}	-60	V
Collector-Emitter Voltage	V_{CEO}	-45	V
Emitter-Base Voltage	V_{EBO}	-5	V
Peak Pulse Current(10ms)	I_{CM}	-1000	mA
Continuous Collector Current	I_C	-800	mA
Base Current	I_B	-100	mA
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	330	mW
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +150	$^{\circ}C$

BCW68

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

PARAMETER		SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Collector-Emitter Breakdown Voltage		$V_{(BR)CEO}$	-45			V	$I_{CEO} = -10\text{mA}$
		$V_{(BR)CES}$	-60				$I_C = -10\mu\text{A}$
Emitter-Base Breakdown Voltage		$V_{(BR)EBO}$	-5			V	$I_{EBO} = -10\mu\text{A}$
Collector-Emitter Cut-off Current		I_{CES}			-20 -10	nA μA	$V_{CES} = -45\text{V}$ $V_{CES} = -45\text{V}$, $T_{amb} = 150^{\circ}\text{C}$
Emitter-Base Cut-Off Current		I_{EBO}			-20	nA	$V_{EBO} = -4\text{V}$
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$		-0.7	-0.3	V V	$I_C = -100\text{mA}$, $I_B = -10\text{mA}$ $I_C = -500\text{mA}$, $I_B = -50\text{mA}^*$
Base-Emitter Saturation Voltage		$V_{BE(sat)}$			-2	V	$I_C = -500\text{mA}$, $I_B = -50\text{mA}^*$
Static Forward Current Transfer	BCW68F	h_{FE}	100 35	170	250		$I_C = -100\text{mA}$, $V_{CE} = -1\text{V}^*$ $I_C = -500\text{mA}$, $V_{CE} = -2\text{V}^*$
	BCW68G	h_{FE}	160 60	250	400		$I_C = -100\text{mA}$, $V_{CE} = -1\text{V}^*$ $I_C = -500\text{mA}$, $V_{CE} = -2\text{V}^*$
	BCW68H	h_{FE}	250 100	350	630		$I_C = -100\text{mA}$, $V_{CE} = -1\text{V}^*$ $I_C = -500\text{mA}$, $V_{CE} = -2\text{V}^*$
Transition Frequency		f_T	100			MHz	$I_C = -20\text{mA}$, $V_{CE} = -10\text{V}$ $f = 100\text{MHz}$
Output Capacitance		C_{obo}		12	18	pF	$V_{CB} = -10\text{V}$, $f = 1\text{MHz}$
Input Capacitance		C_{ibo}			80	pF	$V_{EB} = -0.5\text{V}$, $f = 1\text{MHz}$
Noise Figure		N		2	10	dB	$I_C = -0.2\text{mA}$, $V_{CE} = -5\text{V}$ $R_G = 1\text{K}\Omega$, $f = 1\text{KH}$ $\Delta f = 200\text{Hz}$
Switching times: Turn-On Time Turn-Off Time		t_{on} t_{off}			100 400	ns ns	$I_C = -150\text{mA}$ $I_{B1} = -I_{B2} = -15\text{mA}$ $R_L = 150\Omega$

Spice parameter data is available upon request for this device

*Measured under pulsed conditions.