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SOT23 NPN SILICON PLANAR MEDIUM POWER TRANSISTOR

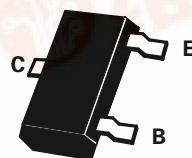
BCW66

ISSUE 4 - MARCH 2001

PARTMARKING DETAILS -

BCW66F -	EF	BCW66FR -	7P
BCW66G -	EG	BCW66GR -	5T
BCW66H -	EH	BCW66HR -	7M

COMPLEMENTARY TYPE - BCW68



SOT23

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	75	V
Collector-Emitter Voltage	V_{CEO}	45	V
Emitter-Base Voltage	V_{EBO}	5	V
Continuous Collector Current	I_C	800	mA
Peak Collector Current(10ms)	I_{CM}	1000	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	$^{\circ}C$

 **ZETEX**



BCW66

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	$I_{CEO}=10\text{mA}$
	$V_{(BR)CES}$	75			V	$I_C=10\mu\text{A}$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	5			V	$I_{EBO}=10\mu\text{A}$
Collector-Emitter Cut-off Current	I_{CES}			20 20	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	$V_{CE(sat)}$			0.3 0.7	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	BCW66F	h_{FE} 75 100 35	160	250		$I_C=10\text{mA}, V_{CE}=1\text{V}$ $I_C=100\text{mA}, V_{CE}=1\text{V}^*$ $I_C=500\text{mA}, V_{CE}=2\text{V}^*$
	BCW66G	h_{FE} 110 160 60	250	400		$I_C=10\text{mA}, V_{CE}=1\text{V}$ $I_C=100\text{mA}, V_{CE}=1\text{V}^*$ $I_C=500\text{mA}, V_{CE}=2\text{V}^*$
	BCW66H	h_{FE} 180 250 100	350	630		$I_C=10\text{mA}, V_{CE}=1\text{V}$ $I_C=100\text{mA}, V_{CE}=1\text{V}^*$ $I_C=500\text{mA}, V_{CE}=2\text{V}^*$
Transition Frequency	f_T	100			MHz	$I_C=20\text{mA}, V_{CE}=10\text{V}$ $f=100\text{MHz}$
Output Capacitance	C_{obo}		8	12	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	$I_C=0.2\text{mA}, V_{CE}=5\text{V}$ $R_G=1\text{k}\Omega$
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.