

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

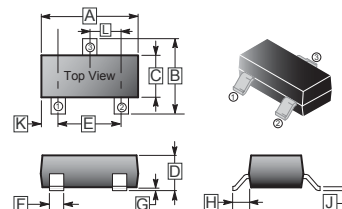
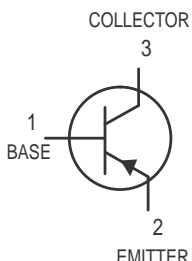
**SOT-23**

### FEATURES

- Complementary to BCW66.

### MARKING:

BCW68F:DF  
BCW68G:DG  
BCW68H:DH



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.04	G	-	0.18
B	2.10	2.80	H	0.40	0.60
C	1.20	1.60	J	0.08	0.20
D	0.89	1.40	K	0.6 REF.	
E	1.78	2.04	L	0.85	1.15
F	0.30	0.50			

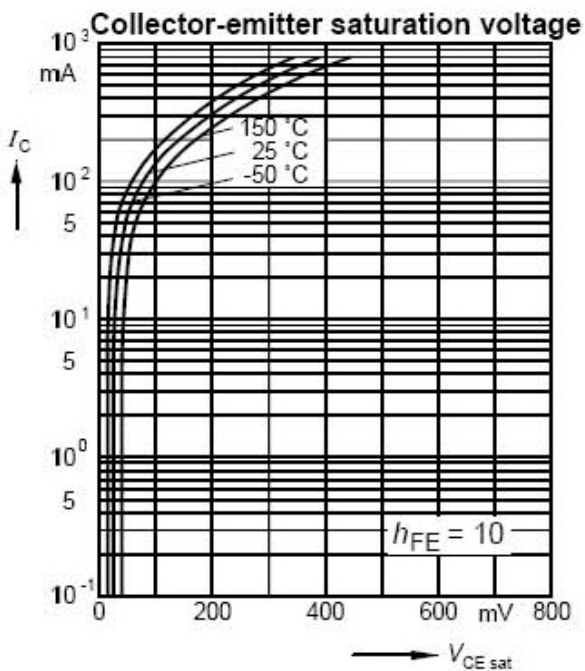
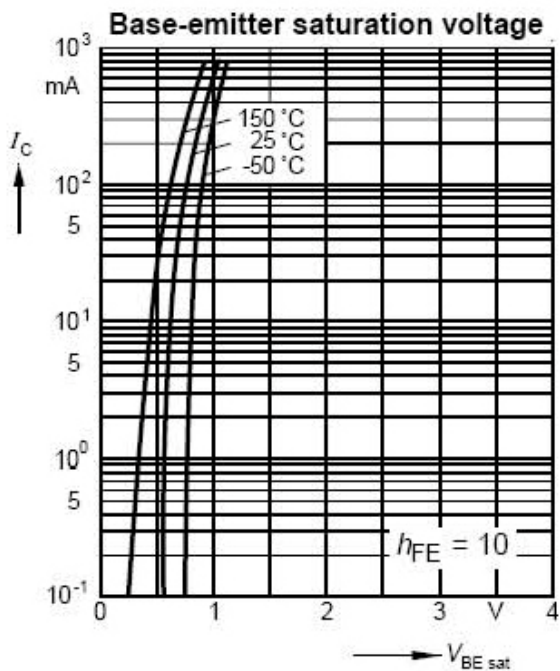
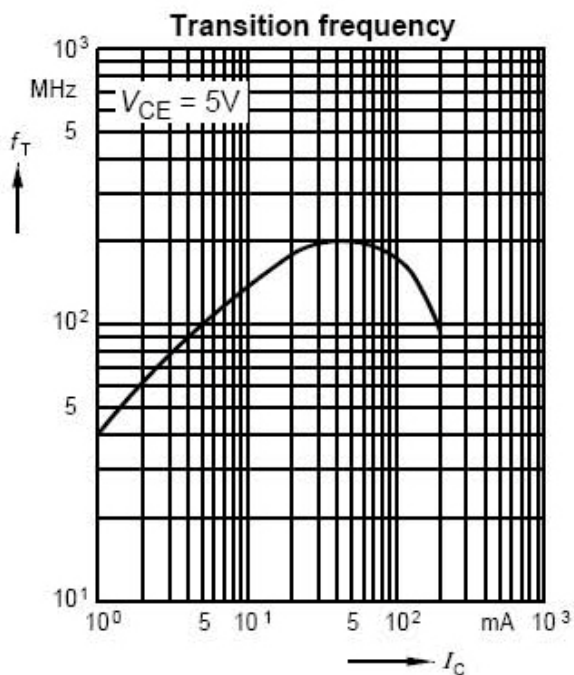
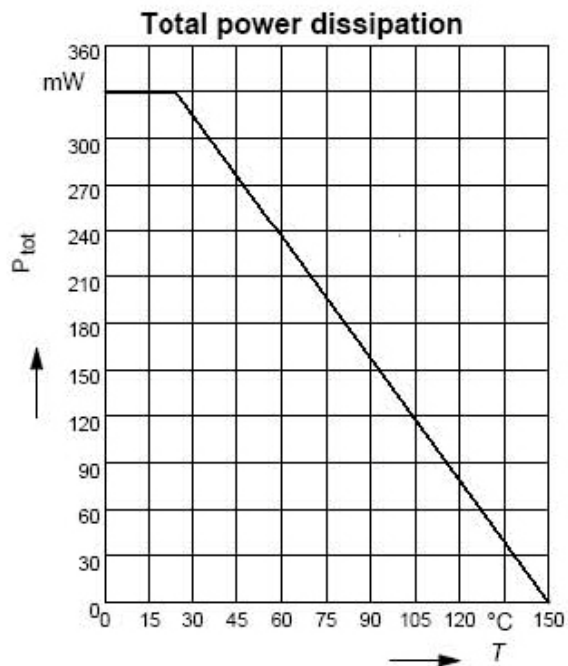
### MAXIMUM RATINGS (T<sub>A</sub> = 25°C unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V <sub>CB0</sub>	-60	V
Collector-Emitter Voltage	V <sub>CE0</sub>	-45	V
Emitter-Base Voltage	V <sub>EBO</sub>	-5	V
Collector Current - Continuous	I <sub>C</sub>	-0.8	A
Collector Power Dissipation	P <sub>C</sub>	0.33	W
Junction & Storage Temperature	T <sub>J</sub> , T <sub>STG</sub>	150, -55~150	°C

### ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = 25°C unless otherwise specified)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Collector-Base Breakdown Voltage	V <sub>(BR)CB0</sub>	-60			V	I <sub>C</sub> =-10μA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	V <sub>(BR)CE0</sub>	-45			V	I <sub>C</sub> =-10mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	V <sub>(BR)EBO</sub>	-5			V	I <sub>E</sub> =-10μA, I <sub>C</sub> =0
Collector Cut-Off Current	I <sub>CB0</sub>			-0.02	μA	V <sub>CB</sub> =-45V, I <sub>E</sub> =0
Collector Cut-off Current	I <sub>EBO</sub>			-0.02	μA	V <sub>EB</sub> =-4V, I <sub>C</sub> =0
DC Current Gain	h <sub>FE1</sub>	BCW68F	35			V <sub>CE</sub> =-10V, I <sub>C</sub> =-0.1mA
		BCW68G	50			
		BCW68H	80			
	h <sub>FE2</sub>	BCW68F	75			V <sub>CE</sub> =-1V, I <sub>C</sub> =-10mA
		BCW68G	120			
		BCW68H	180			
	h <sub>FE3</sub>	BCW68F	100		250	V <sub>CE</sub> =-1V, I <sub>C</sub> =-100mA
		BCW68G	160		400	
		BCW68H	250		630	
	h <sub>FE4</sub>	BCW68F	35			V <sub>CE</sub> =-2V, I <sub>C</sub> =-500mA
BCW68G		60				
BCW68H		100				
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>			-0.3	V	I <sub>C</sub> =-100mA, I <sub>B</sub> =-10mA
				-0.7	V	I <sub>C</sub> =-500mA, I <sub>B</sub> =-50mA
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>			-1.25	V	I <sub>C</sub> =-100mA, I <sub>B</sub> =-10mA
				-2	V	I <sub>C</sub> =-500mA, I <sub>B</sub> =-50mA
Transition Frequency	f <sub>T</sub>		200		MHz	V <sub>CE</sub> =-5V, I <sub>C</sub> =-50mA, f=20MHz
Output Capacitance	C <sub>OB</sub>		6		pF	V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1MHz
Input Capacitance	C <sub>IB</sub>		60		pF	V <sub>EB</sub> =-0.5V, I <sub>E</sub> =0, f=1MHz

**CHARACTERISTIC CURVES**



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