Elektronische Bauelemente

BCW68

PNP Plastic-Encapsulate Transistors

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

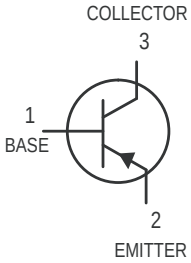
SOT-23

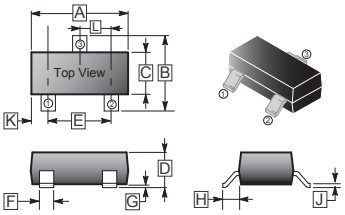
FEATURES

- 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_A = 25°C unless otherwise specified)

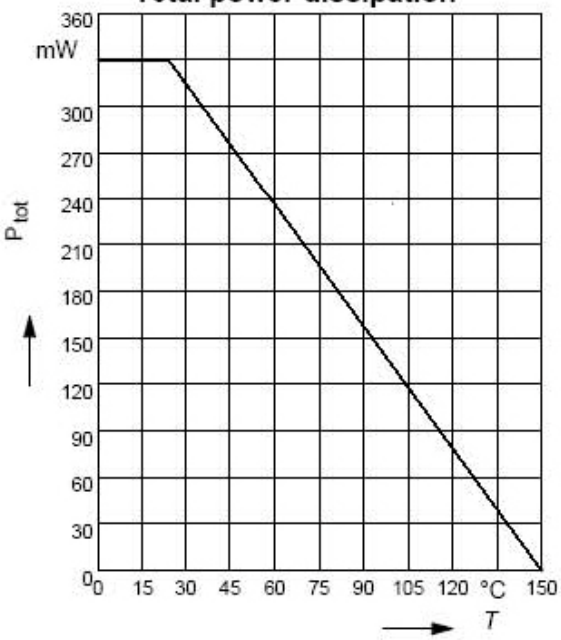
PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	-60	V
Collector-Emitter Voltage	V_{CEO}	-45	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current - Continuous	I_C	-0.8	A
Collector Power Dissipation	P_C	0.33	W
Junction & Storage Temperature	T_J, T_{STG}	150, -55~150	°C

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

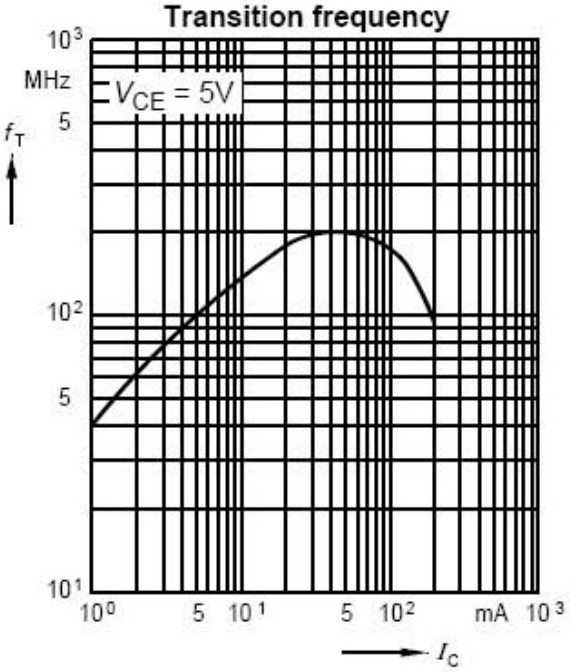
PARAMETER	SYMBOL		MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$		-60			V	I_C=-10μA, I_E=0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$		-45			V	I_C=-10mA, I_B=0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$		-5			V	I_E=-10μA, I_C=0
Collector Cut-Off Current	I_{CBO}				-0.02	μA	V_{CB}=-45V, I_E=0
Collector Cut-off Current	I_{EBO}				-0.02	μA	V_{EB}=-4V, I_C=0
DC Current Gain	h_{FE1}	BCW68F	35				V_{CE}=-10V, I_C=-0.1mA
		BCW68G	50				
		BCW68H	80				
	h_{FE2}	BCW68F	75				V_{CE}=-1V, I_C=-10mA
		BCW68G	120				
		BCW68H	180				
	h_{FE3}	BCW68F	100		250		V_{CE}=-1V, I_C=-100mA
		BCW68G	160		400		
		BCW68H	250		630		
	h_{FE4}	BCW68F	35				V_{CE}=-2V, I_C=-500mA
		BCW68G	60				
		BCW68H	100				
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$				-0.3	V	I_C=-100mA, I_B=-10mA
					-0.7	V	I_C=-500mA, I_B=-50mA
Base-Emitter Saturation Voltage	$V_{BE(sat)}$				-1.25	V	I_C=-100mA, I_B=-10mA
					-2	V	I_C=-500mA, I_B=-50mA
Transition Frequency	f_T			200		MHz	V_{CE}=-5V, I_C=-50mA,f=20MHz
Output Capacitance	C_{OB}			6		pF	V_{CB}=-10V, I_E=0,f=1MHz
Input Capacitance	C_{IB}			60		pF	V_{EB}=-0.5V,I_E=0,f=1MHz

CHARACTERISTIC CURVES

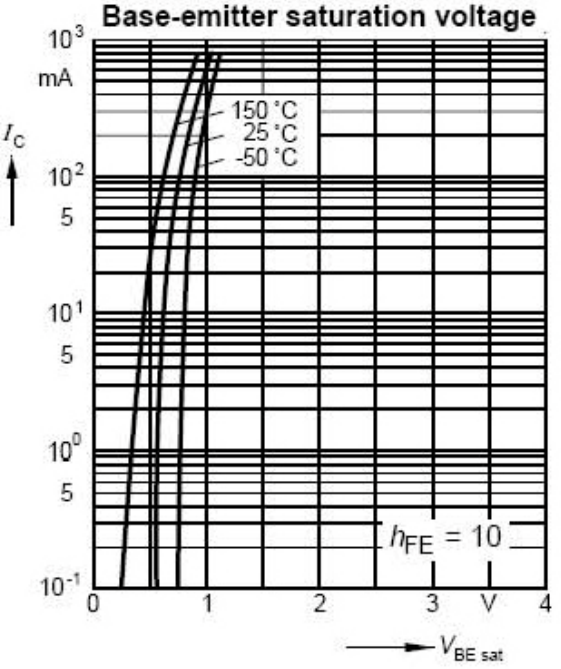
Total power dissipation



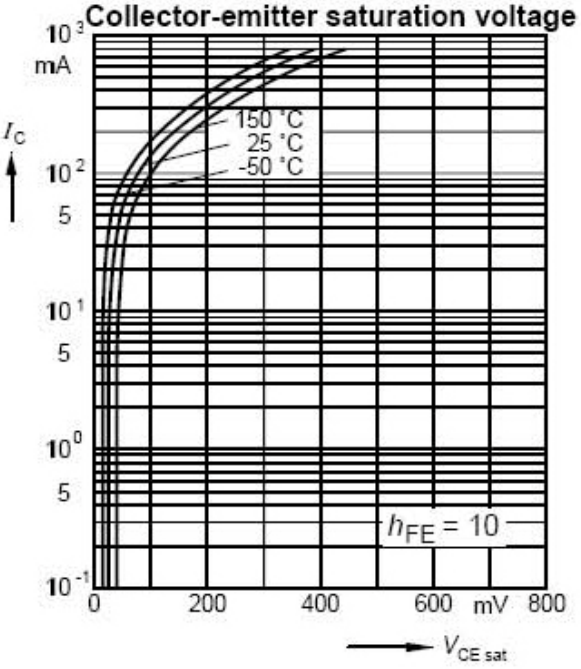
Transition frequency



Base-emitter saturation voltage



Collector-emitter saturation voltage



CHARACTERISTIC CURVES