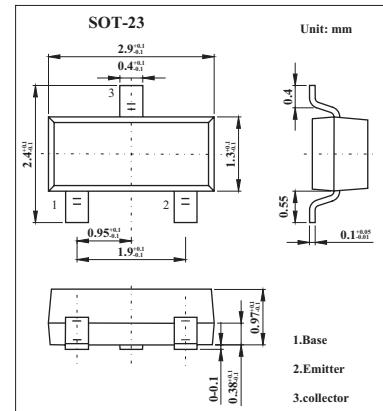


PNP General Purpose Transistors

BCW67,BCW68

■ Features

- For general AF applications.
- High current gain.
- Low collector-emitter saturation voltage.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	BCW67	BCW68	Unit
Collector-base voltage	V _{CBO}	-45	-60	V
Collector-emitter voltage	V _{CEO}	-32	-45	V
Emitter-base voltage	V _{EBO}	-5	-5	V
Collector current	I _C	-800		mA
Peak collector current	I _{CM}	-1000		mA
Base current	I _B	-100		mA
Peak base current	I _{BM}	-200		mA
Total power dissipation, Ts = 79°C	P _{tot}	330		mW
Junction temperature	T _j	150		°C
Storage temperature	T _{stg}	-65 to +150		°C
Junction - soldering point	R _{thJS}	≤215		K/W

BCW67,BCW68■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter		Symbol	Testconditons	Min	Typ	Max	Unit
Collector-emitter breakdown voltage	BCW67	V(BR)CEO	$I_c = -10 \text{ mA}, I_B = 0$	-32			V
	BCW68			-45			
Collector-base breakdown voltage	BCW67	V(BR)CBO	$I_c = -10 \mu\text{A}, I_E = 0$	-45			V
	BCW68			-60			
Emitter-base breakdown voltage		V(BR)EBO	$I_E = -10 \mu\text{A}, I_c = 0$	-5			V
Collector cutoff current	BCW67	I _{CBO}	$V_{CB} = -32 \text{ V}, I_E = 0$ $V_{CB} = -45 \text{ V}, I_E = 0$			-20	nA
	BCW68					-20	
	BCW67	I _{CBO}	$V_{CB} = -32 \text{ V}, I_E = 0, T_A = 150^\circ\text{C}$ $V_{CB} = -45 \text{ V}, I_E = 0, T_A = 150^\circ\text{C}$			-20	\mu\text{A}
	BCW68					-20	
Emitter cutoff current		I _{EBO}	$V_{EB} = -4 \text{ V}, I_c = 0$			-20	nA
DC current gain * hFE-group	A/F	hFE	$I_c = 100 \mu\text{A}, V_{CE} = 10 \text{ V}$	35			
	B/G			50			
	C/H			80			
DC current gain * hFE-group	A/F	hFE	$I_c = 10 \text{ mA}, V_{CE} = 1 \text{ V}$	75			
	B/G			120			
	C/H			180			
DC current gain * hFE-group	A/F	hFE	$I_c = -100 \text{ mA}, V_{CE} = -1 \text{ V}$	100	160	250	
	B/G			160	250	400	
	C/H			250	350	630	
Collector-emitter saturation voltage *		V _{CE(sat)}	$I_c = -100 \text{ mA}, I_B = -10 \text{ mA}$			-0.3	V
			$I_c = -500 \text{ mA}, I_B = -50 \text{ mA}$			-0.7	
Base-emitter saturation voltage *		V _{BE(sat)}	$I_c = -100 \text{ mA}, I_B = -10 \text{ mA}$			-1.25	
			$I_c = -500 \text{ mA}, I_B = -50 \text{ mA}$			-2	
Transition frequency		f _T	$I_c = -50 \text{ mA}, V_{CE} = -5 \text{ V}, f = 20 \text{ MHz}$		200		MHz
Collector-base capacitance		C _{cb}	$V_{CB} = -10 \text{ V}, f = 1 \text{ MHz}$		6		pF
Emitter-base capacitance		C _{eb}	$V_{EB} = -0.5 \text{ V}, f = 1 \text{ MHz}$		60		

* Pulse test: $t \leq 300 \mu\text{s}, D = 2\%$.

■ hFE Classification

TYPE	BCW67		
Rank	A	B	C
Marking	DAs	DBs	DCs
TYPE	BCW68		
Rank	F	G	H
Marking	DFs	DGs	DHs