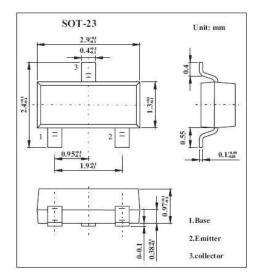




NPN General Purpose Transistors BC849, BC850

Features

Low current (max. 100 mA) Low voltage (max. 45 V).



■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
collector-base voltage	Voso	30	V
		50	V
collector-emitter voltage	Vœo	30	V
		45	V
emitter-base voltage	VEBO	5	V
collector current (DC)	Ic	100	mA
peak collector current	Icm	200	mA
peak base current	Івм	200	mA
total power dissipation Tamb ≤25 °C *	Ptot	250	mW
storage temperature	Tstg	-65 to 150	C
junction temperature	Tj	150	C
operating ambient temperature	Tamb	-65 to 150	C
thermal resistance from junction to ambient *	Rh(ja)	500	K/W

^{*} Transistor mounted on an FR4 printed-circuit board.



Electrical Characteristics Ta = 25℃

Parameter	Symbol	Testconditons	Min	Тур	Max	Unit
collector cut-off current	Ісво	IE = 0; VCB = 30 V			15	nΑ
		IE = 0; VcB = 30 V; Tj = 150 □C			5	μΑ
emitter cut-off current	ІЕВО	IC = 0; VEB = 5 V			100	nA
DC current gain BC849B; BC850B		Ic = 10 μA; Vcε = 5 V;		240		
BC849C; BC850C	hFE			450		
DC current gain BC849B; BC850B	I TIFE	Ic = 2 mA; VcE = 5 V;	200	290	450	
BC849C; BC850C			420	520	800	
collector-emitter saturation voltage	VCEsat	Ic = 10 mA; IB = 0.5 mA		90	250	mV
		Ic = 100 mA; IB = 5 mA		200	600	mV
base-emitter saturation voltage	VBEsat	Ic = 10 mA; IB = 0.5 mA; *1		700	0)	mV
		Ic = 100 mA; IB = 5 mA; *1		900		mV
base-emitter voltage	Ves	Ic = 2 mA; VcE = 5 V; *2	580	660	700	mV
	VBE	Ic = 10 mA; VcE = 5 V;*2			770	mV
collector capacitance	Cc	IE = ie = 0; VcB = 10 V; f = 1 MHz		2.5		pF
emitter capacitance	Се	Ic = ic = 0; VEB = 500 mV; f = 1 MHz		11	10	pF
transition frequency	fT	Ic = 10 mA; VcE = 5 V; f = 100 MHz	100			MHz
noise figure F	-	Ic = 200 μ A; VcE = 5 V; Rs = 2 $k\Omega$,f = 10 Hz to 15.7 kHz			4	dB
	្រ	Ic = 200 μ A; VcE = 5 V; Rs = 2 $k\Omega$,f = 1 kHz; B = 200 Hz			4	dB

^{*1} VBEsat decreases by about 1.7 mV/K with increasing temperature.

^{*2} VBE decreases by about 2 mV/K with increasing temperature.

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