

2SC5343E

NPN Silicon Transistor

Ta=25°C

Description

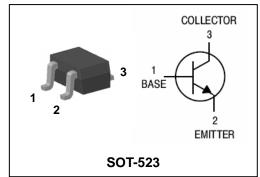
• General small signal amplifier

Features

- Low collector saturation voltage : $V_{CE(sat)}=0.25V(Max.)$
- Low output capacitance : C_{ob}=2pF(Typ.)
- Complementary pair with 2SA1980E

Ordering Information

PIN Connection



Type NO.	Marking	Package Code		
2SC5343E	<u>C</u> <u>□</u> <u>□</u> ① ② ③	SOT-523		

1)Device Code 2)hFE Rank 3)Year&Week Code

Absolute maximum ratings

	1 u-2 5 C			
Characteristic	Symbol	Ratings	Unit	
Collector-Base voltage	V _{CBO}	60	V	
Collector-Emitter voltage	V _{CEO}	50	V	
Emitter-Base voltage	V _{EBO}	5	V	
Collector current	Ι _C	150	mA	
Collector dissipation	Pc	150	mW	
Junction temperature	Tj	150	°C	
Storage temperature	T _{stg}	-55~150	°C	

Electrical Characteristics

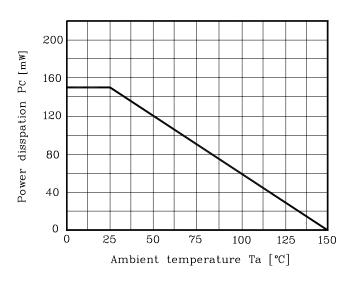
Electrical CharacteristicsTa=25°C							
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit	
Collector-Base breakdown voltage	BV_{CBO}	$I_{C} = 100 \mu A$, $I_{E} = 0$	60	-	-	V	
Collector-Emitter breakdown voltage	BV _{CEO}	$I_{C}=1mA$, $I_{B}=0$	50	-	-	V	
Emitter-Base breakdown voltage	BV_{EBO}	$I_{E} = 10 \mu A$, $I_{C} = 0$	5	-	-	V	
Collector cut-off current	I _{CBO}	$V_{CB} = 60V$, $I_{E} = 0$	-	-	0.1	μA	
Emitter cut-off current	I _{EBO}	V_{EB} =5V, I_{C} =0	-	-	0.1	μΑ	
DC current gain	h _{FE} *	V_{CE} =6V, I_{C} =2mA	70	-	700	-	
Collector-Emitter saturation voltage	V _{CE(sat)}	I_{C} =100mA, I_{B} =10mA	-	-	0.25	V	
Transistion frequency	f _T	V_{CE} =10V, I_{C} =1mA	80	-	-	MHz	
Collector output capacitance	C _{ob}	V_{CB} =10V, I_{E} =0, f=1MHz	-	2	3.5	pF	
Noise figure	NF	V _{CE} =6V, I _C =0.1mA, f=1KHz, Rg=10KΩ	-	-	10	dB	

* : $h_{FE} \operatorname{rank} / O$: 70 ~ 140, Y : 120 ~ 240, G : 200 ~ 400, L : 300 ~ 700

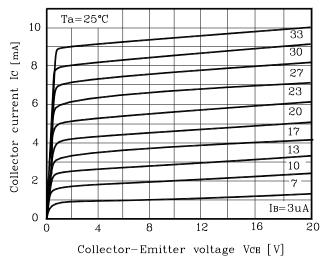
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Electrical Characteristic Curves

Fig. 1 P_C –T_a









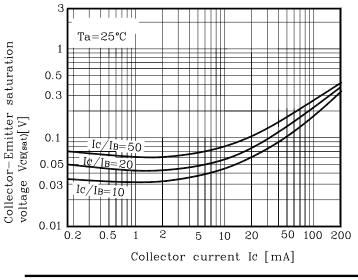


Fig. 2 $I_C - V_{BE}$

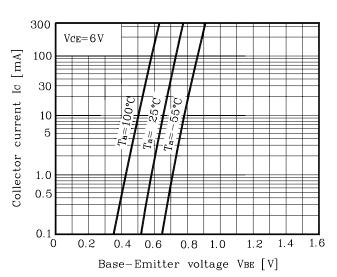
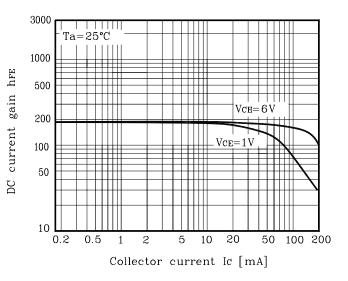
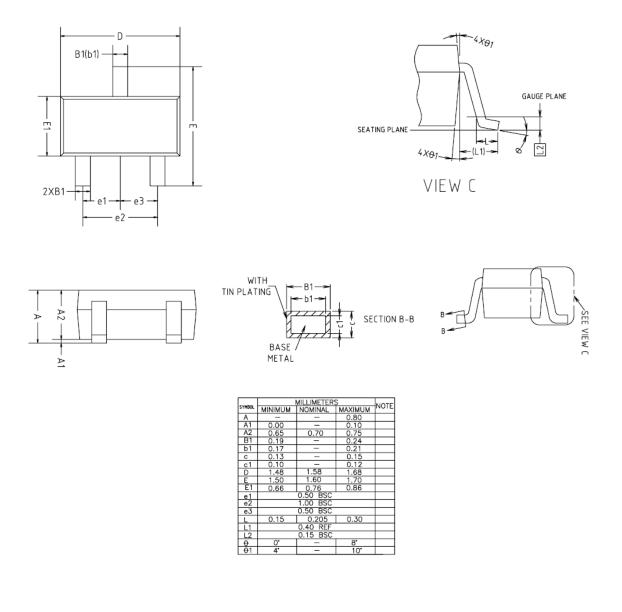


Fig. 4 h_{FE} -I_C

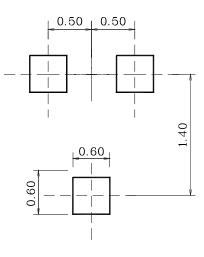


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Outline Dimension



*Recommend PCB solder land [Unit: mm]



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