

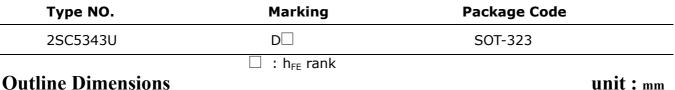
Description

• General small signal amplifier

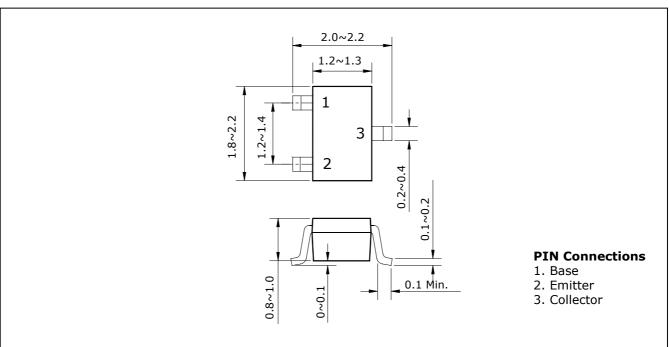
Features

- Low collector saturation voltage : V_{CE} =0.25V(Max.)
- Low output capacitance : C_{ob}=2pF(Typ.)
- Complementary pair with 2SA1980U

Ordering Information



Outline Dimensions



2SC5343U

Absolute maximum ratings

Absolute maximum ratings			Ta=25°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	I _C	150	mA
Collector dissipation	P _C	200	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55~150	°C

Electrical Characteristics

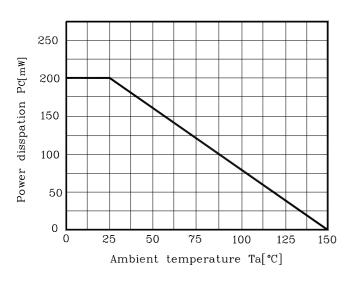
Electrical CharacteristicsTa=25°C								
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit		
Collector-Base breakdown voltage	BV_{CBO}	I_{C} =100 μ A, I_{E} =0	60	-	-	V		
Collector-Emitter breakdown voltage	BV_{CEO}	$I_{C}=1mA$, $I_{B}=0$	50	-	-	V		
Emitter-Base breakdown voltage	BV_{EBO}	$I_{E}=10\mu A$, $I_{C}=0$	5	-	-	V		
Collector cut-off current	I_{CBO}	V_{CB} =60V, I_{E} =0	-	-	0.1	μA		
Emitter cut-off current	\mathbf{I}_{EBO}	V_{EB} =5V, I_{C} =0	-	-	0.1	μA		
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	рF		
Noise figure	NF	V _{CE} =6V, I _C =0.1mA, f=1KHz, Rg=10KΩ	-	-	10	dB		

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

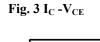
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Electrical Characteristic Curves

Fig. 1 P_C – T_a







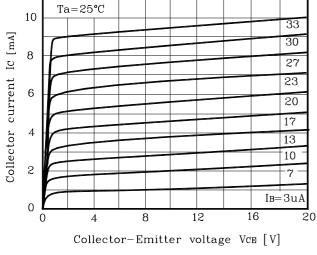


Fig. 5 $V_{CE(sat)}$ -I_C

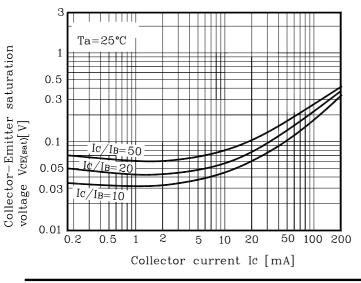
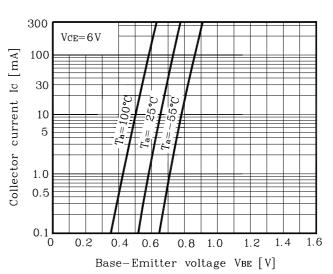
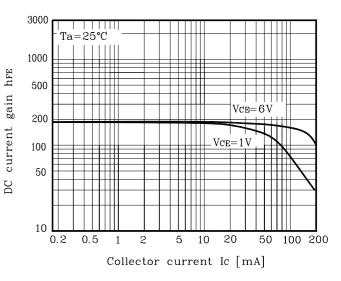


Fig. 2 I_C -V_{BE}







2SC5343U

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