

2SC5342SF

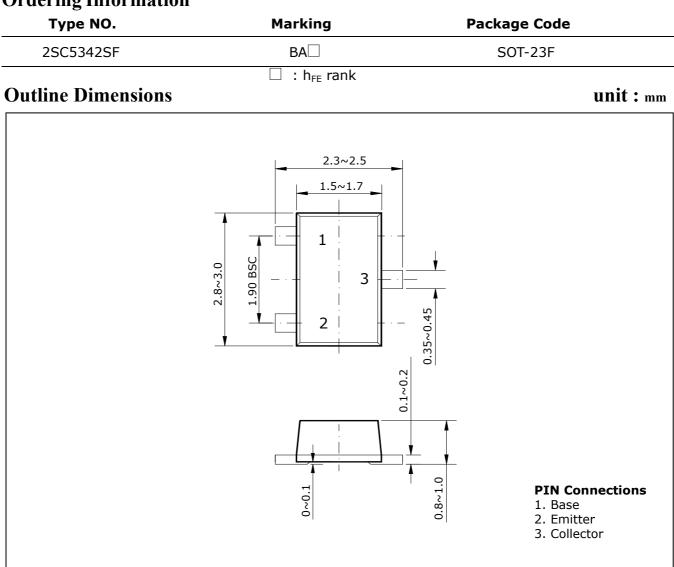
Description

• Medium power amplifier

Features

- Large collector current : $I_{\text{C}}{=}500\text{mA}$
- Low collector saturation voltage enabling low-voltage operation
- Complementary pair with 2SA1979SF

Ordering Information



2SC5342SF

Absolute maximum ratings

Absolute maximum ratings			(Ta=25°C)	
Characteristic	Symbol	Ratings	Unit	
Collector-Base voltage	V _{CBO}	40	V	
Collector-Emitter voltage	V _{CEO}	32	V	
Emitter-Base voltage	V _{EBO}	5	V	
Collector current	I _C	500	mA	
Collector dissipation	P _C	200	mW	
Junction temperature	T _j	150	°C	
Storage temperature	T _{stg}	-55~150	°C	

Electrical Characteristics

Electrical Characteristics					(Ta=25°C)	
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Base breakdown voltage	BV _{CBO}	I_{C} =100 μ A, I_{E} =0	40	-	-	V
Collector-Emitter breakdown voltage	BV_{CEO}	$I_C=1mA$, $I_B=0$	32	-	-	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} =40V, 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} =1V, I _C =100mA	70	-	240	-
Collector-Emitter saturation voltage	$V_{CE(sat)}$	I_{C} =100mA, I_{B} =10mA	-		0.25	V
Transition frequency	f _T	V _{CE} =6V, I _E =-20mA	-	300	-	MHz
Collector output capacitance	C _{ob}	V_{CB} =6V, I_{E} =0, f=1MHz	-	7.0	-	pF

* : h_{FE} Rank / O : 70~140, Y : 120~240

Electrical Characteristic Curves

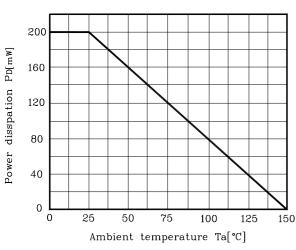


Fig. 1 Pc - Ta

Fig. 3 I_C - V_{CE}

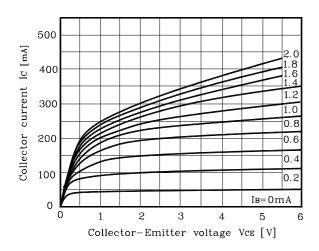


Fig. 5 h_{FE} - I_C

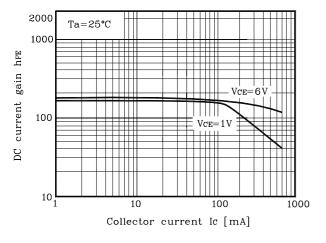


Fig. 2 I_C - V_{BE}

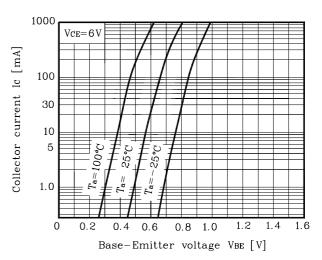
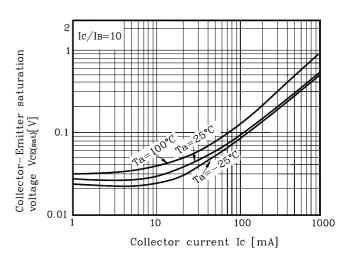


Fig. 4 V_{CE(SAT)} - I_C



2SC5342SF

These AUK products are intended for usage in general electronic equipments(Office and communication equipment, measuring equipment, domestic electrification, etc.).

Please make sure that you consult with us before you use these AUK products in equipments which require high quality and/or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, traffic signal, combustion central, all types of safety device, etc.).

AUK cannot accept liability to any damage which may occur in case these AUK products were used in the mentioned equipments without prior consultation with AUK.