





Description

• Medium power amplifier

Features

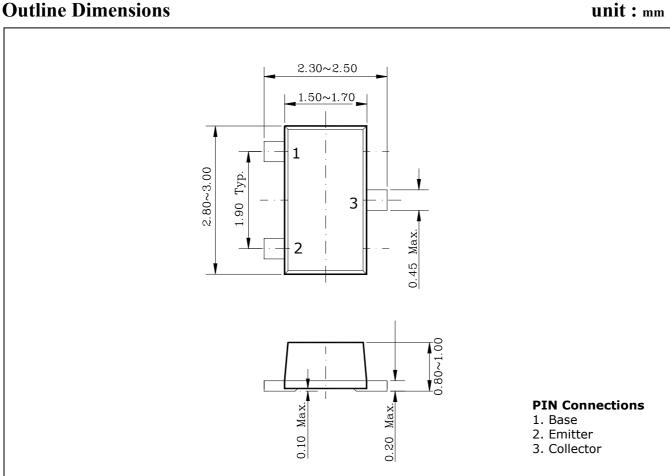
- \bullet Large collector current : I_C =500mA
- Low collector saturation voltage enabling low-voltage operation
- Complementary pair with 2SA1979SF

Ordering Information

Type NO.	Marking	Package Code		
2SC5342SF	$BA\square$	SOT-23F		
-	□ • h rank			

 \sqcup : h_{FE} rank

Outline Dimensions



KST-2064-002 1 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

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base breakdown voltage	BV _{CBO}	$I_{C}=100\mu A,\ I_{E}=0$	40	-	-	V
Collector-Emitter breakdown voltage	BV _{CEO}	$I_C=1$ mA, $I_B=0$	32	-	ı	V
Emitter-Base breakdown voltage	BV_{EBO}	$I_E=10\mu A,\ I_C=0$	5	-	ı	V
Collector cut-off current	I_{CBO}	V _{CB} =40V, I _E =0	-	-	0.1	μА
Emitter cut-off current	I_{EBO}	$V_{EB}=5V$, $I_C=0$	-	-	0.1	μА
DC current gain	h _{FE} *	V _{CE} =1V, I _C =100mA	70	-	240	-
Collector-Emitter saturation voltage	$V_{CE(sat)}$	$I_C=100$ mA, $I_B=10$ mA	-		0.25	V
Transition frequency	f_T	V_{CE} =6V, I_{C} =20mA	-	300	ı	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

KST-2064-002 2

Electrical Characteristic Curves

Fig. 1 Pc - Ta

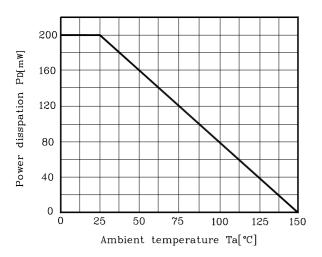


Fig. 3 I_C - V_{CE}

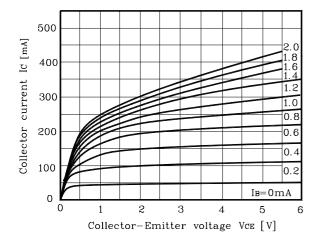


Fig. 5 h_{FE} - I_C

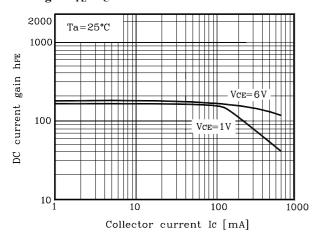


Fig. 2 I_{C} - V_{BE}

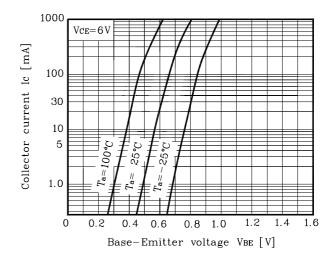
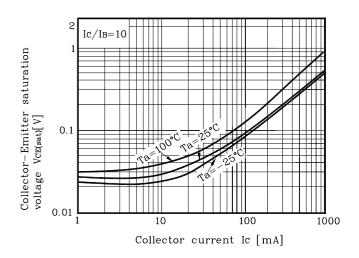


Fig. 4 $V_{\text{CE(SAT)}}$ - I_{C}



KST-2064-002 3

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KST-2064-002 4