

## Description

- Complex type bipolar transistor

## Feature

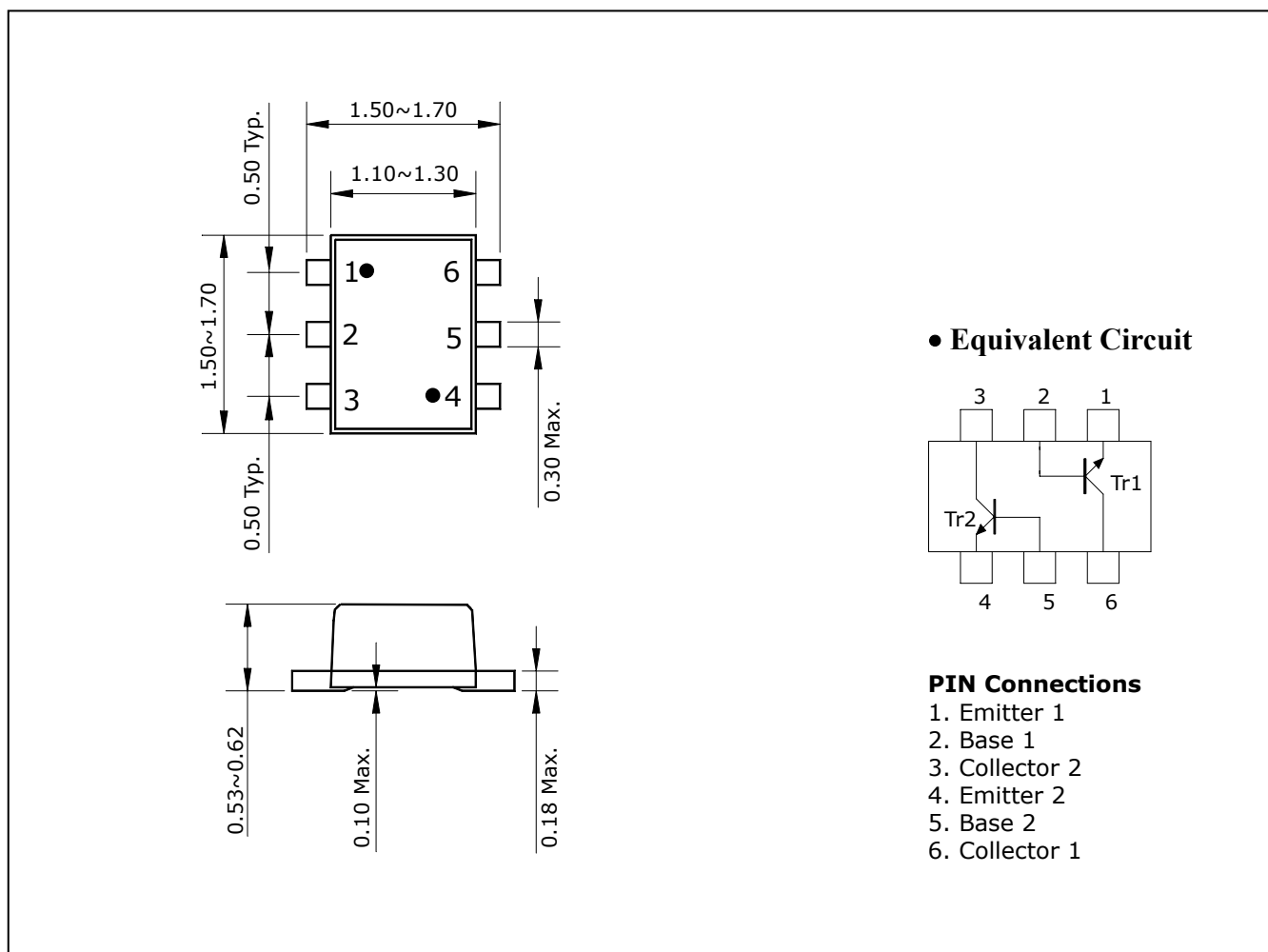
- Very small package save PCB area
- Reduce quantity of parts and mounting cost
- Two 2SC5343 chips in SOT-563F package

## Ordering Information

Type NO.	Marking	Package Code
SUT562EF	XX	SOT-563F

## Outline Dimensions

unit : mm



**Absolute Maximum Ratings [ Tr1, Tr2 ]**

(Ta=25°C)

Characteristic	Symbol	Rating	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 power dissipation	$P_C^*$	150	mW
Junction temperature	$T_J$	150	°C
Storage temperature range	$T_{stg}$	-55~150	°C

※: Total rating

**Electrical Characteristics [Tr1, Tr2 ]**

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-emitter breakdown voltage	$BV_{CEO}$	$I_C=1mA, I_B=0$	50	-	-	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	μA
DC current gain	$h_{FE}$	$V_{CE}=6V, I_C=2mA$	120	-	400	-
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=100mA, I_B=10mA$	-	-	0.25	V
Base-emitter voltage	$V_{BE}$	$V_{CE}=6V, I_C=2mA$	-	0.65	-	V
Transition frequency	$f_T$	$V_{CE}=10V, I_C=10mA$	-	200	-	MHz
Collector output capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	2	-	pF

# Electrical Characteristic Curves

[ Tr1, Tr2 ]

Fig. 1  $I_C - V_{BE}$

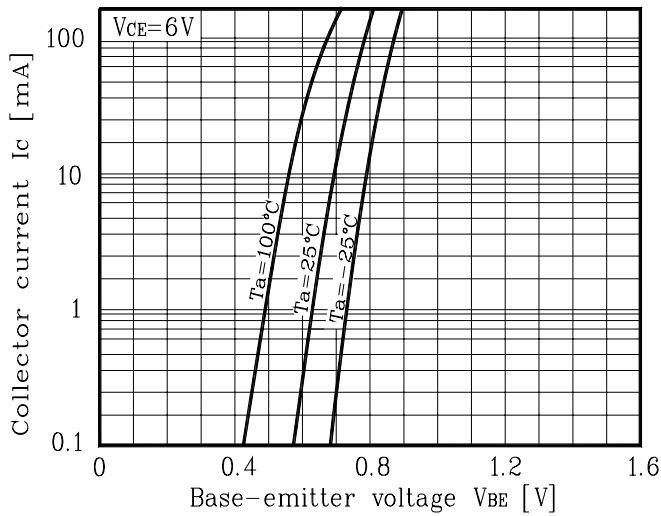


Fig. 2  $I_C - V_{CE}$

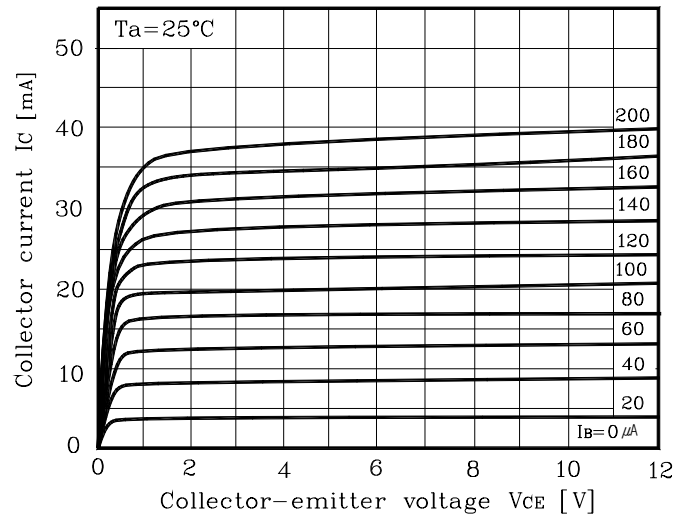


Fig. 3  $h_{FE} - I_C$

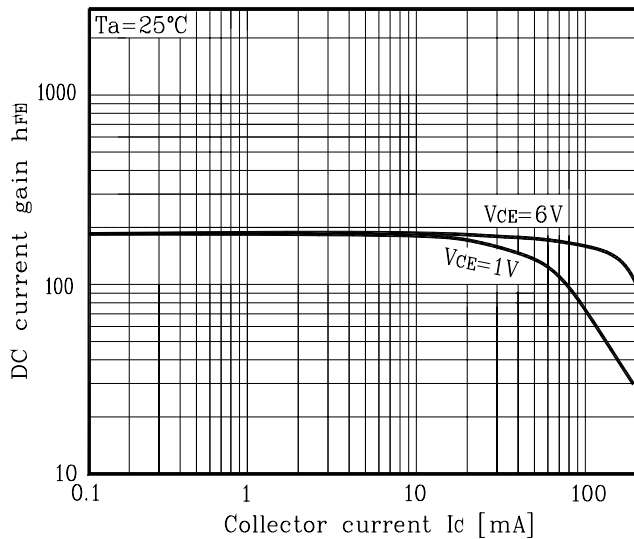


Fig. 4  $V_{CE(sat)} - I_C$

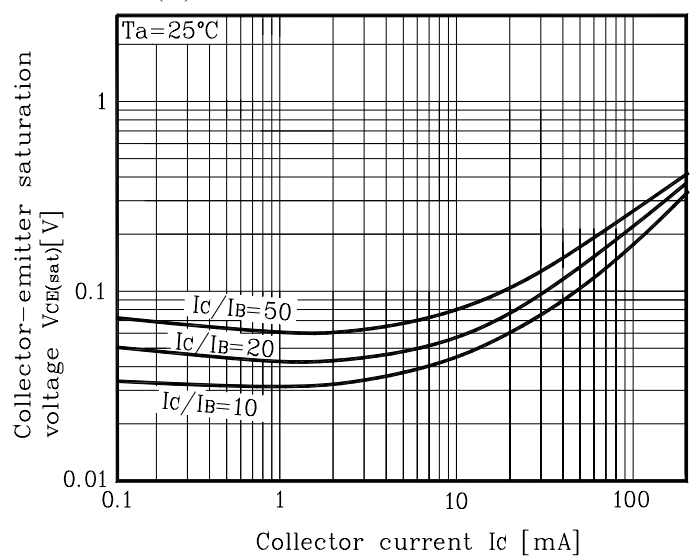
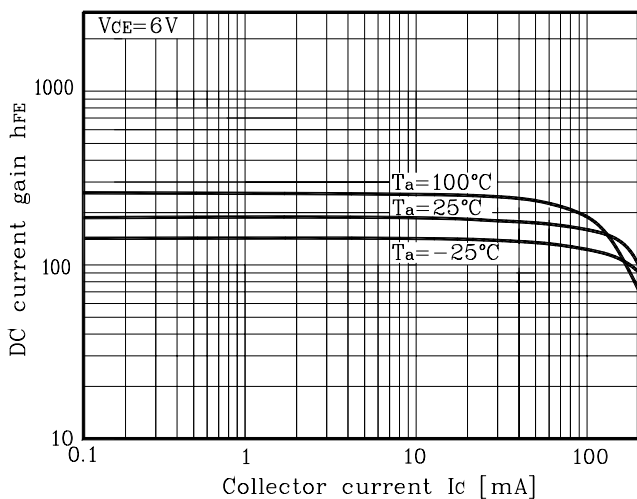


Fig. 6  $h_{FE} - I_C$



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