

Epitaxial planar NPN silicon transistor

#### Description

Complex type bipolar transistor

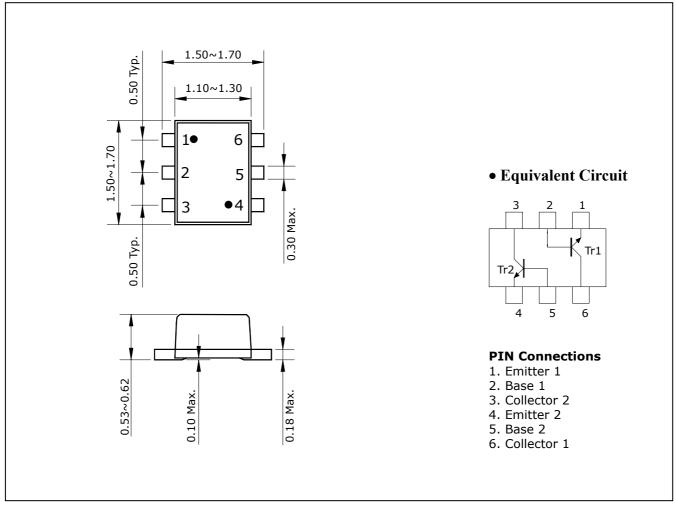
#### Feature

- 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

(Ta=25°C)

### Absolute Maximum Ratings [Tr1, Tr2]

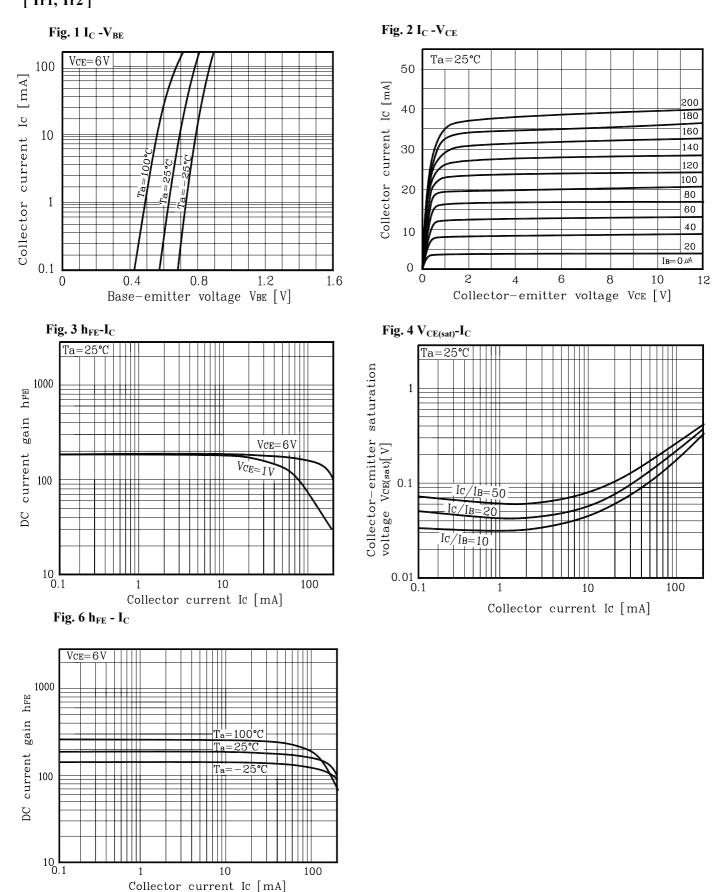
Characteristic	Symbol	Rating	Unit
Collector-base voltage	V <sub>CBO</sub>	60	V
Collector-emitter voltage	V <sub>CEO</sub>	50	V
Emitter-base voltage	V <sub>EBO</sub>	5	V
Collector current	I <sub>C</sub>	150	mA
Collector power dissipation	₽ <sub>C</sub> <sup>*</sup>	150	mW
Junction temperature	Tյ	150	°C
Storage temperature range	T <sub>stg</sub>	-55~150	°C

\*: Total rating

### Electrical Characteristics [Tr1. Tr2]

Electrical Characteristics [Tr1, Tr2]					(Ta=25°C)		
Characteristic	Symbol	<b>Test Condition</b>	Min.	Тур.	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	$\mathbf{I}_{EBO}$	$V_{EB}$ =5V, $I_{C}$ =0	-	-	0.1	μA	
DC current gain	h <sub>FE</sub>	$V_{CE}$ =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 <sub>T</sub>	$V_{CE}$ =10V, $I_{C}$ =10mA	-	200	-	MHz	
Collector output capacitance	C <sub>ob</sub>	$V_{CB}$ =10V, $I_{E}$ =0, f=1MHz	-	2	-	pF	

#### Electrical Characteristic Curves [Tr1, Tr2]



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