

Epitaxial planar NPN silicon transistor

Description

Complex type bipolar transistor

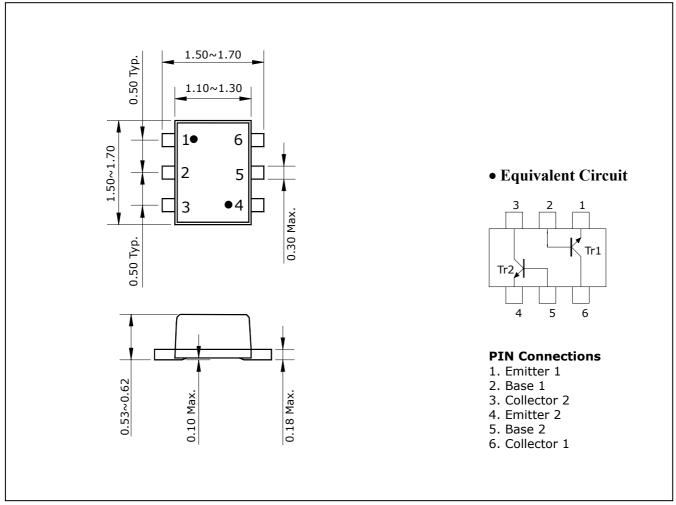
Feature

- 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]

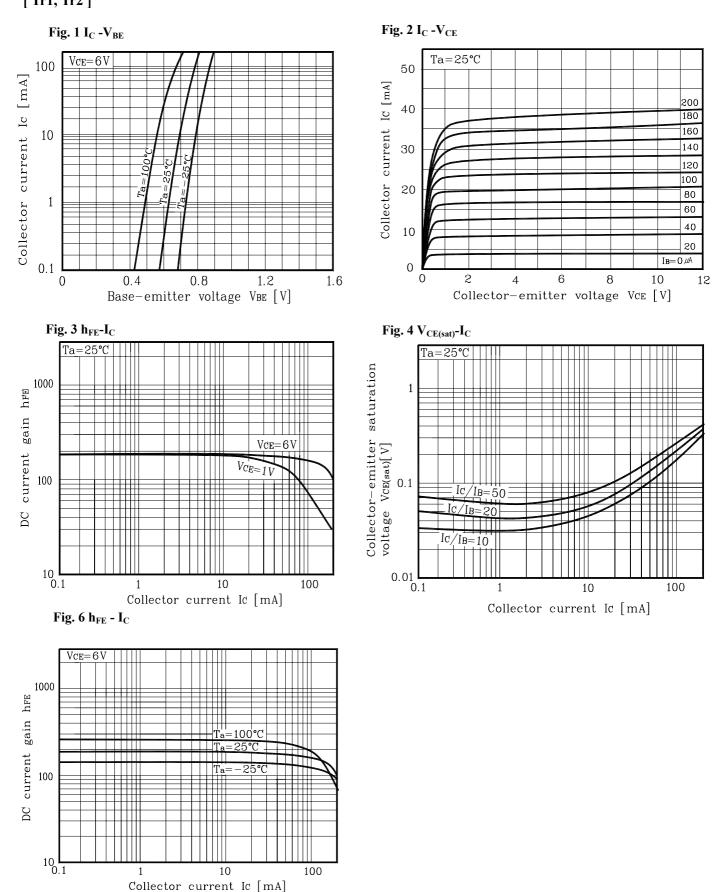
Characteristic	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	60	V
Collector-emitter voltage	V _{CEO}	50	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _C	150	mA
Collector power dissipation	₽ _C [*]	150	mW
Junction temperature	Tյ	150	°C
Storage temperature range	T _{stg}	-55~150	°C

*: Total rating

Electrical Characteristics [Tr1. Tr2]

Electrical Characteristics [Tr1, Tr2]					(Ta=25°C)		
Characteristic	Symbol	Test Condition	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 _{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]



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