

SUT486J

Epitaxial planar NPN silicon transistor

Description

• Complex type bipolar transistor

Feature

- Small package save PCB area
- Reduce quantity of parts and mounting cost
- Two 2SC5343 chips in SOT-363 package



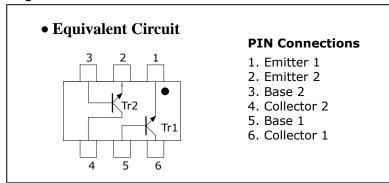
Package: SOT-363

Ordering Information

Type NO.	Marking	Package Code
SUT486J	6X□	SOT-363

□ : Year & Week Code

Equivalent circuit & PIN Connections



Absolute Maximum Ratings [Tr1, Tr2]

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Collector-ease 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 **	200	mW
Junction temperature	T ₃	150	°C
Storage temperature range	T_{stg}	-55~150	°C

*: Total rating

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Electrical Characteristics [Tr1,Tr2]

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-emitter breakdown voltage	BV _{CEO}	$I_C=1$ mA, $I_B=0$	50	ı	-	V
Collector cut-off current	I_{CBO}	V _{CB} =60V, I _E =0	ı	ı	0.1	μΑ
Emitter cut-off current	I_{EBO}	V_{EB} =5V, I_{C} =0	ı	ı	0.1	μΑ
DC current gain	h _{FE}	V _{CE} =6V, I _C =2mA	120	ı	400	-
Collector-emitter saturation voltage	$V_{\text{CE(sat)}}$	I _C =100mA, I _B =10mA	ı	ı	0.25	V
Base-emitter voltage	V_{BE}	V _{CE} =6V, I _C =2mA	ı	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

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Electrical Characteristic Curves

[Tr1, Tr2]

Fig. 1 I_C - V_{BE}

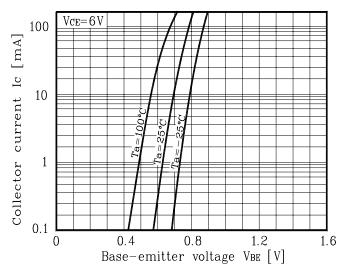


Fig. 2 $I_{\rm C}$ -V $_{\rm CE}$

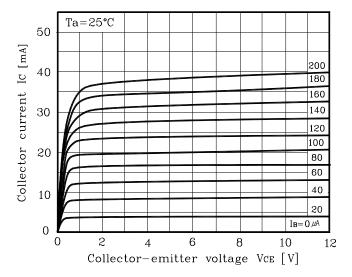


Fig. 3 h_{FE} - I_{C}

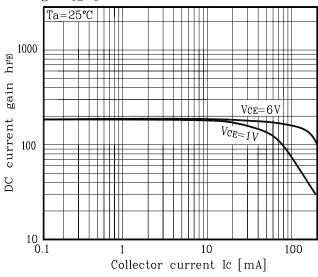


Fig. 4 $V_{CE(sat)}$ - I_C

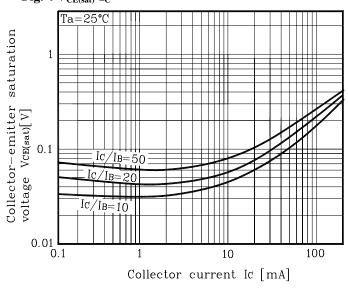
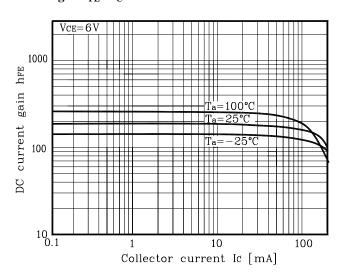
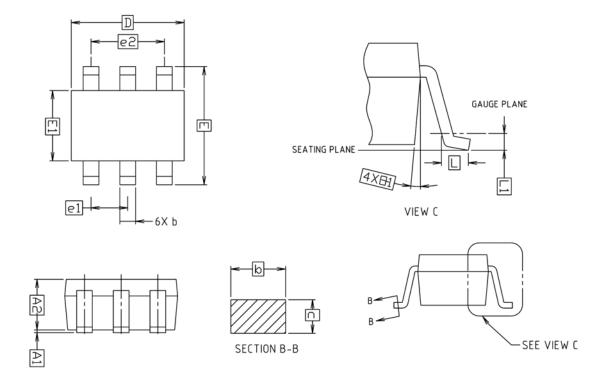


Fig. 6 h_{FE} - I_{C}



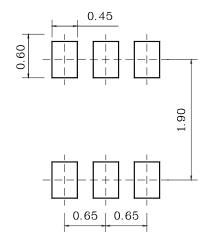
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Outline Dimension



	MILLIMETERS			NOTE	
SYMBOL	MINIMUM	NOMINAL	MAXIMUM	NOIL	
A1	0.00	_	0.10		
A2	0.90	0.95	1.00		
b	0.25	_	0.40		
С	0.10	_	0.25		
D	1.90	2.00	2.10		
Ε	1.95	2.10	2.25		
E1	1.15	1.25	1.35		
e1	0.65 BSC				
e2	1.30 BSC				
L	0.25	_	_		
L1	0.15 BSC				

* Recommend PCB solder land [Unit: mm]



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