

SUT480H

Epitaxial planar NPN silicon transistor

Description

• Complex type bipolar transistor

Features

- Small package save PCB area
- Reduce quantity of parts and mounting cost
- Two 2SC5343 chips in SOT-353 package



Ordering Information

Type NO.	Marking	Package Code	
SUT480H	ХЗ□	SOT-353	_

□ : Year & Week Code

Equivalent circuit & PIN Connections

• Equivalent Circuit	
3 2 1 Tr2 Tr1	PIN Connections 1. Base 1 2. Emitter 1,2 3. Base 2 4. Collector 2 5. Collector 1
4 5	

Absolute Maximum Ratings [Tr1, Tr2]

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	60	V
Collector-emitter voltage	$V_{\sf CEO}$	50	V
Emitter-base voltage	V_{EBO}	5	V
Collector current	I_{C}	150	mA
Collector power dissipation	P _C *	200	mW
Junction temperature	Tı	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	-	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⊤	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}

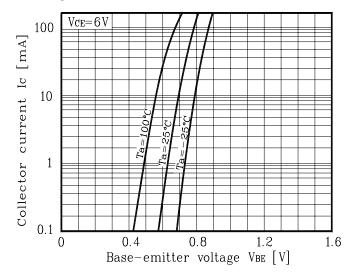


Fig. 3 h_{FE} - I_{C}

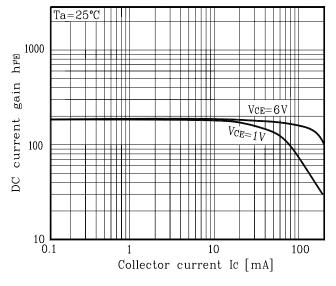


Fig. 5 h_{FE} - I_C

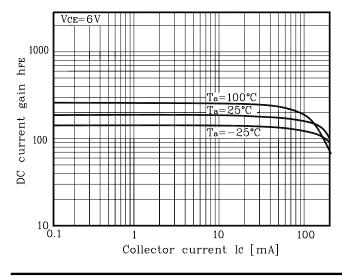


Fig. 2 $I_{\rm C}$ -V $_{\rm CE}$

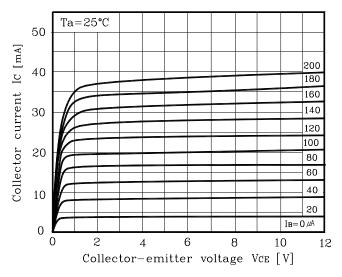
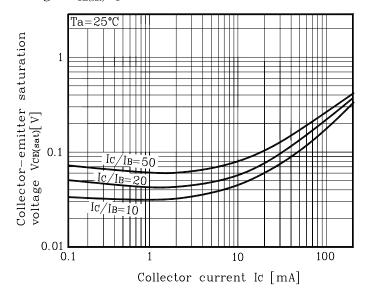


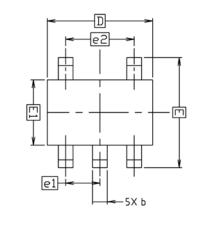
Fig. 4 $V_{CE(sat)}$ - I_{C}

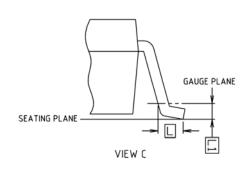


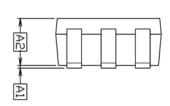
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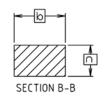
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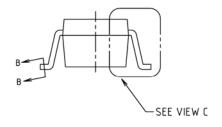
Outline Dimension





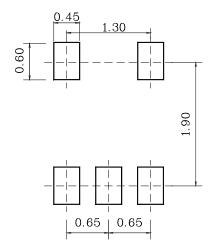






	MILLIMETERS			NOTE
SYMBOL	MINIMUM	NOMINAL	MAXIMUM	11012
A1	0.00	_	0.10	
A2	0.90	0.95	1.00	
Ь	0.25	_	0.40	
С	0.10	-	0.25	
D	1.90	2.00	2.10	
E	1.95	2.10	2.25	
E1	1.15	1.25	1.35	
e1	0.65 BSC			
e2	1.30 BSC			
L	0.25	_	_	
11	0.15 BSC			

* Recommend PCB solder land [Unit: mm]



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