

SUT488J

Epitaxial planar PNP silicon transistor

Description

• Complex type bipolar transistor

Feature

- Small package save PCB area
- Reduce quantity of parts and mounting cost
- Two 2SA1980 chips in SOT-363 package



Package: SOT-363

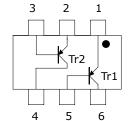
Ordering Information

Type NO.	Marking	Package Code		
SUT488J	8X□	SOT-363		

□ : Year & Week Code

Equivalent circuit & PIN Connections





PIN Connections

- 1. Emitter 1
- 2. Emitter 2
- 3. Base 2
- 4. Collector 2
- 5. Base 1
- 6. Collector 1

Absolute Maximum Ratings [Tr1, Tr2]

 $(Ta=25^{\circ}C)$

Characteristic	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-50	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 =-1mA, I_B =0	-50	ı	ı	V
Collector cut-off current	I_{CBO}	V _{CB} =-50V, I _E =0	-	-	-0.1	μА
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0	-	-	-0.1	μА
DC current gain	h _{FE}	V _{CE} =-6V, I _C =-2mA	120	ı	400	-
Collector-emitter saturation voltage	$V_{CE(sat)}$	I _C =-100mA, I _B =-10mA	-	ı	-0.3	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	ı	MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz	-	4	-	pF

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Electrical Characteristic Curves

[Tr1, Tr2]

Fig. 1 I_C - V_{BE}

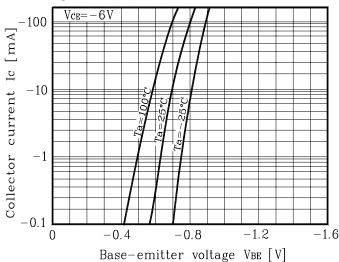


Fig. 2 I_{C} -V $_{\text{CE}}$

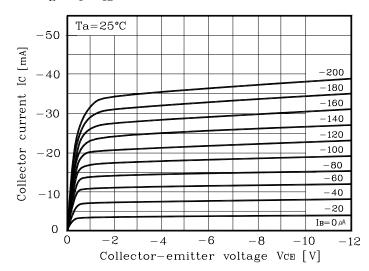


Fig. 3 h_{FE} - I_C

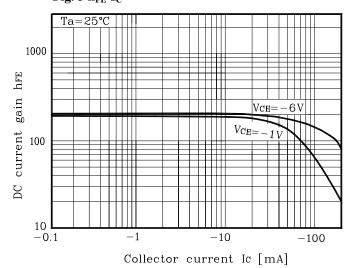


Fig. 4 $V_{CE(sat)}$ - I_{C}

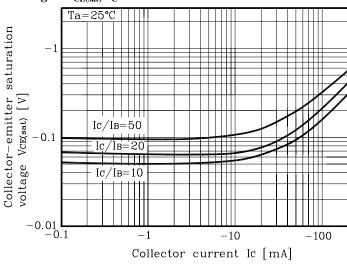
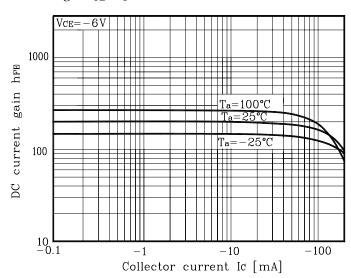
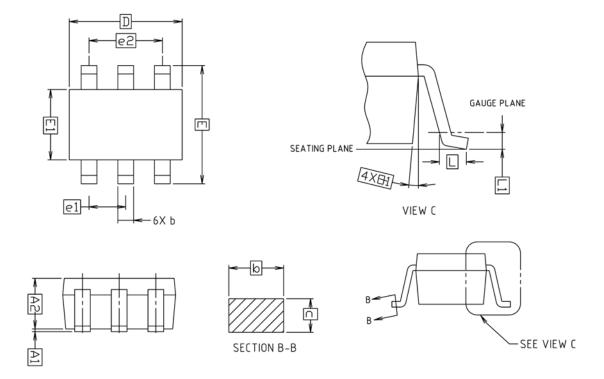


Fig. 5 h_{FE} - I_{C}



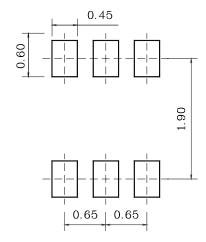
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Outline Dimension



	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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