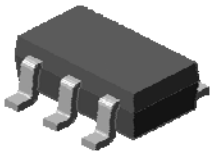
KODENSHI AUK

SUT485J

Epitaxial planar NPN silicon transistor

Description

- Complex type bipolar transistor



Package : SOT-363

Feature

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

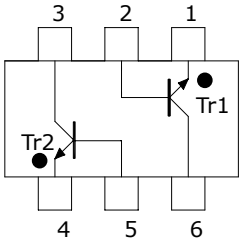
Ordering Information

Type NO.	Marking	Package Code
SUT485J	SS□	SOT-363

□ : Year & Week Code

Equivalent circuit & PIN Connections

- **Equivalent Circuit**



PIN Connections

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

Absolute Maximum Ratings [Tr1, Tr2] (Ta=25°C)

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	P_C※	200	mW
Junction temperature	T_J	150	°C
Storage temperature range	T_{stg}	-55~150	°C

※: Total rating

Electrical Characteristics [Tr1, Tr2]

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	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	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]

Fig. 1 I_C -V_{BE}

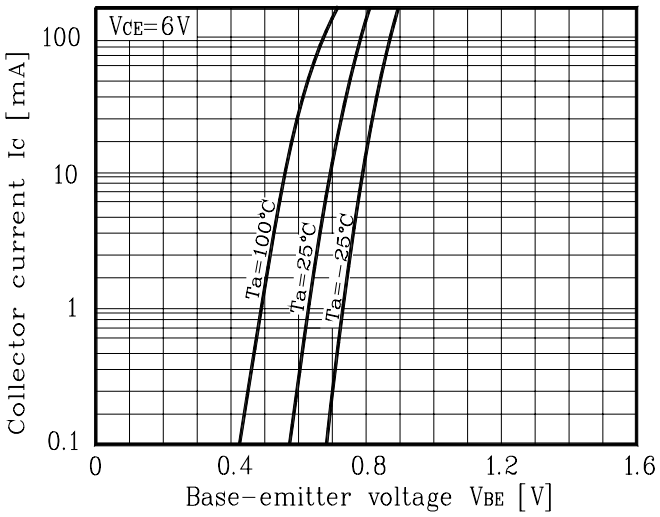


Fig. 2 I_C -V_{CE}

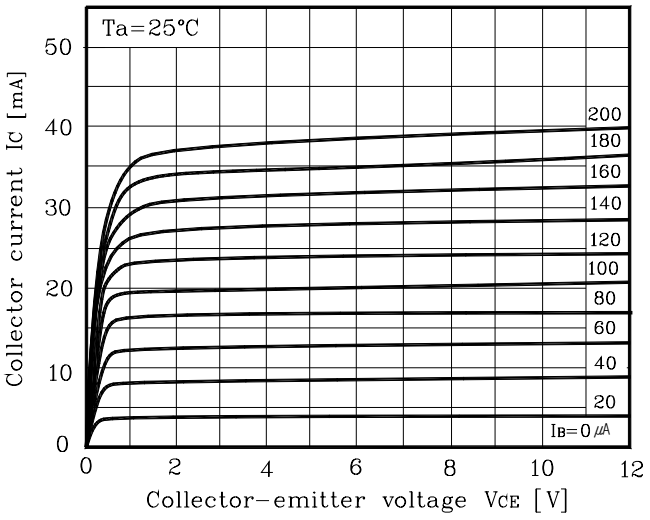


Fig. 3 h_{FE}-I_C

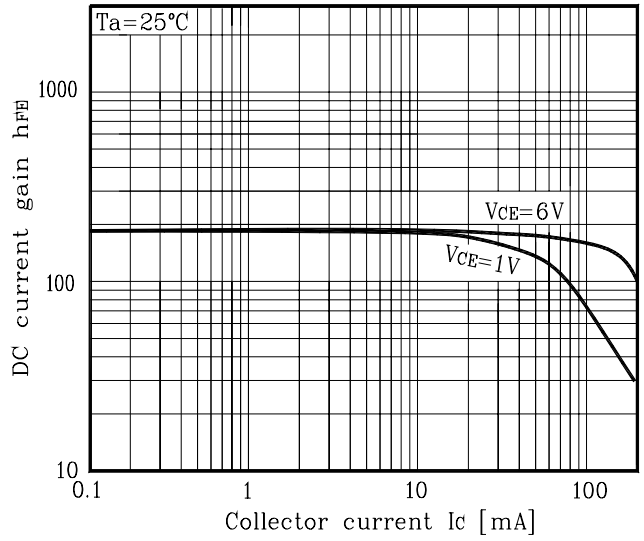


Fig. 4 $V_{CE(sat)}$-I_C

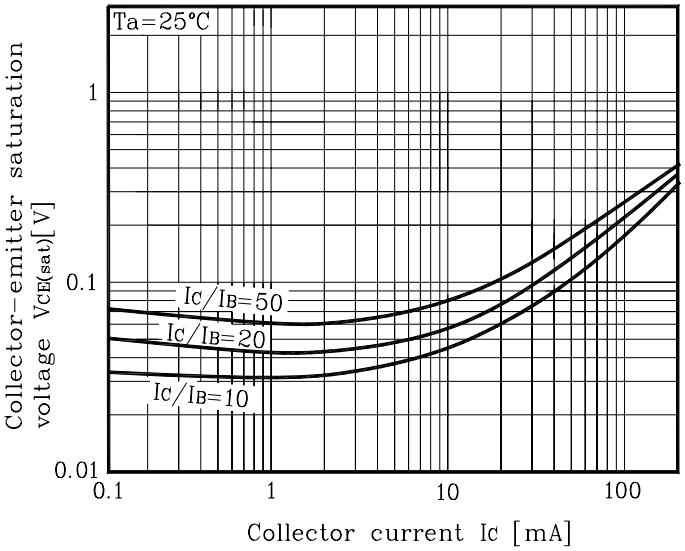
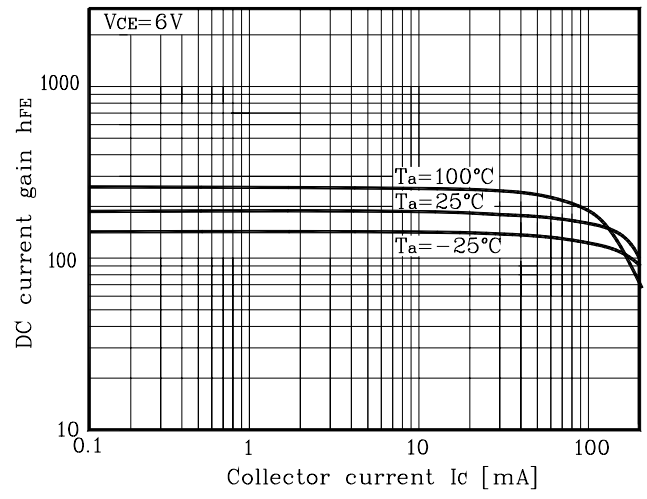
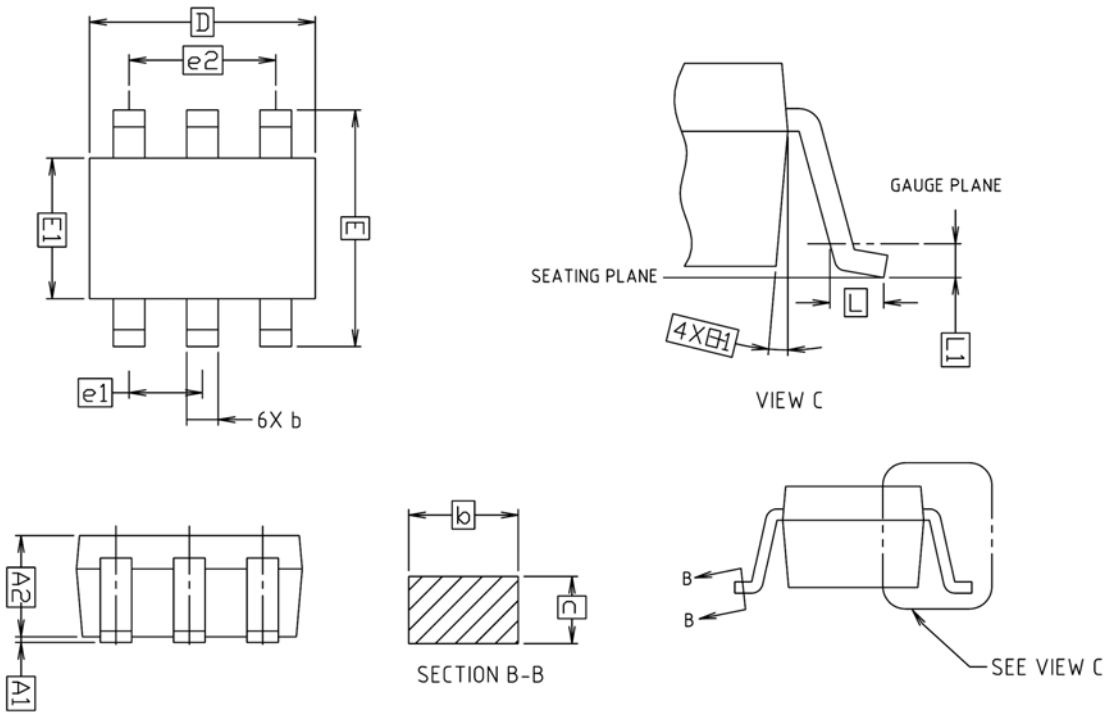


Fig. 6 h_{FE} - I_C

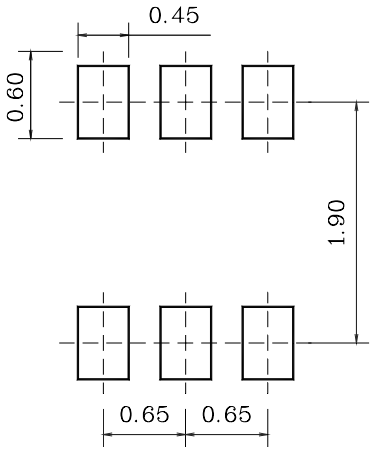


Outline Dimension



SYMBOL	MILLIMETERS			NOTE
	MINIMUM	NOMINAL	MAXIMUM	
A1	0.00	–	0.10	
A2	0.90	0.95	1.00	
b	0.25	–	0.40	
c	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	–	–	
L1	0.15 BSC			

※ Recommend PCB solder land [Unit: mm]



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