

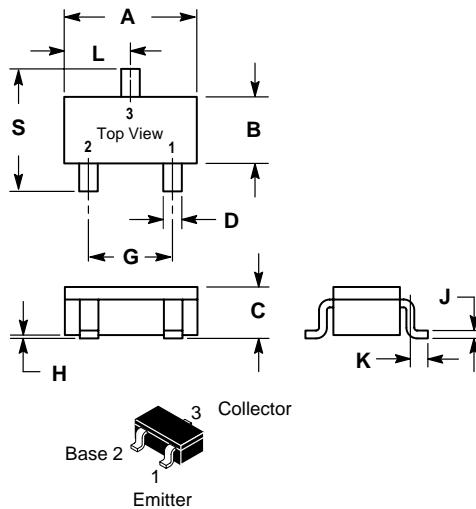
RoHS Compliant Product

**FEATURES**

- Low Cob.  
Cob=4.0pF
- Complements the 2SC4617

**STRUCTURE**

- Epitaxial planar type
- PNP Silicon Teansistor



SOT-523		
Dim	Min	Max
A	1.50	1.70
B	0.78	0.82
C	0.80	0.82
D	0.28	0.32
G	0.90	1.10
H	0.00	0.10
J	0.10	0.20
K	0.35	0.41
L	0.49	0.51
S	1.50	1.70
All Dimension in mm		

● **Absolute maximum** (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	V <sub>CB0</sub>	-60	V
Collector-emitter voltage	V <sub>CEO</sub>	-50	V
Emitter-base voltage	V <sub>EBO</sub>	-6	V
Collector current	I <sub>c</sub>	-0.15	A
Collector power dissipation	P <sub>c</sub>	0.15	W
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55~+150	°C

● **Electrical characteristics** (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV <sub>CB0</sub>	-60	-	-	V	I <sub>c</sub> =-50μA
Collector-emitter breakdown voltage	BV <sub>CEO</sub>	-50	-	-	V	I <sub>c</sub> =-1uA
Emitter-base breakdown voltage	BV <sub>EBO</sub>	-7	-	-	V	I <sub>E</sub> =-50μA
Collector cutoff current	I <sub>cBO</sub>	-	-	-0.1	μA	V <sub>CB</sub> =-60V
Emitter cutoff current	I <sub>EBO</sub>	-	-	-0.1	μA	V <sub>EB</sub> =-6V
DC current transfer ratio	h <sub>FE</sub>	120	-	560	-	V <sub>CE</sub> =-6V, I <sub>c</sub> =-1mA
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	-	-	-0.5	V	I <sub>c</sub> /I <sub>B</sub> =-50mA/-5mA
Transition frequency	f <sub>r</sub>	-	140	-	MHz	V <sub>CE</sub> =-12V, I <sub>E</sub> =-2mA, f=30MHz
Output capacitance	Cob	-	4.0	5.0	pF	V <sub>CE</sub> =-12V, I <sub>E</sub> =0A, f=1MHz

h<sub>FE</sub> values are classified as follows :

Item	Q	R	S
h <sub>FE</sub>	120~270	180~390	270~560
Marking	FQ	FR	FS

● Electrical characteristic curves

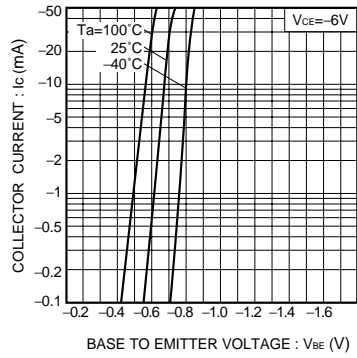


Fig.1 Grounded emitter propagation characteristics

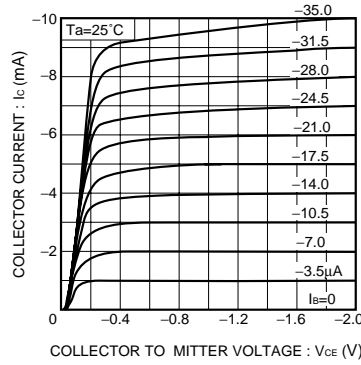


Fig.2 Grounded emitter output characteristics (I)

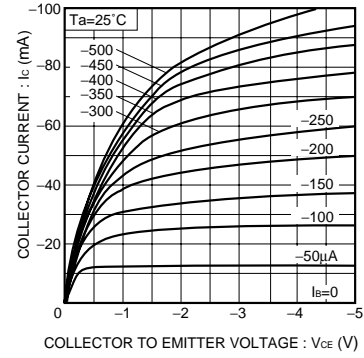


Fig.3 Grounded emitter output characteristics (II)

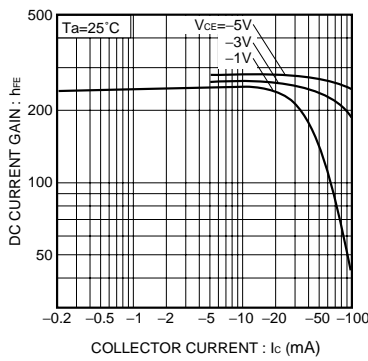


Fig.4 DC current gain vs. collector current (I)

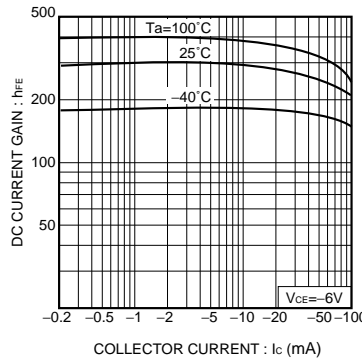


Fig.5 DC current gain vs. collector current (II)

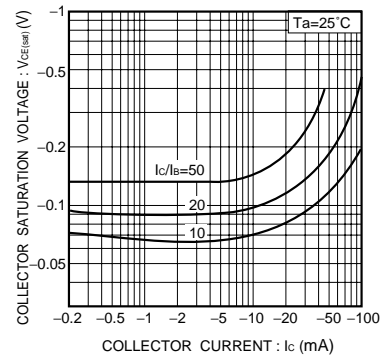


Fig.6 Collector-emitter saturation voltage vs. collector current (I)

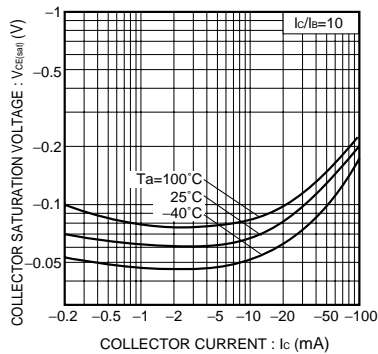


Fig.7 Collector-emitter saturation voltage vs. collector current (II)

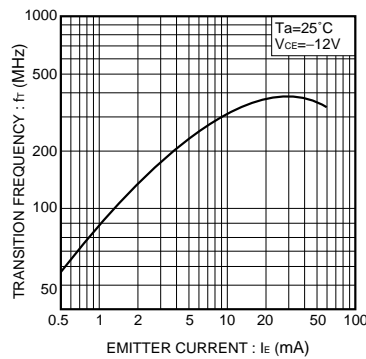


Fig.8 Gain bandwidth product vs. emitter current

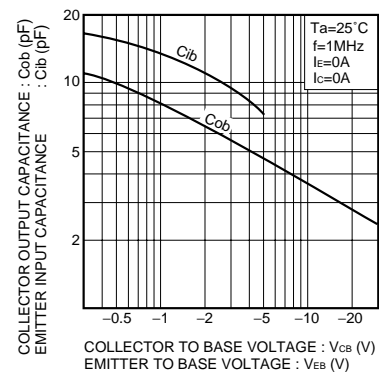


Fig.9 Collector output capacitance vs. collector-base voltage  
Emitter input capacitance vs. emitter-base voltage