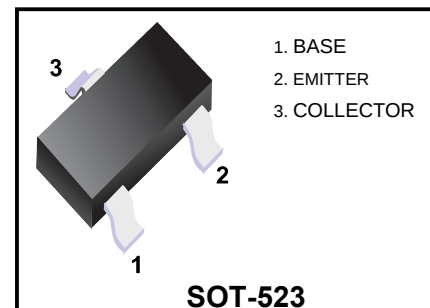


Plastic-Encapsulate Transistors

TRANSISTOR (NPN)

FEATURES

- ◆ Low Cob: Cob=2.0pF(Typ)
- ◆ Complement to 2SA1774



Maximum ratings (Ta=25°C unless otherwise noted)

Characteristics	Symbols	Value	Units
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current -Continuous	I_C	150	mA
Collector Power Dissipation	P_C	150	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 to +150	°C

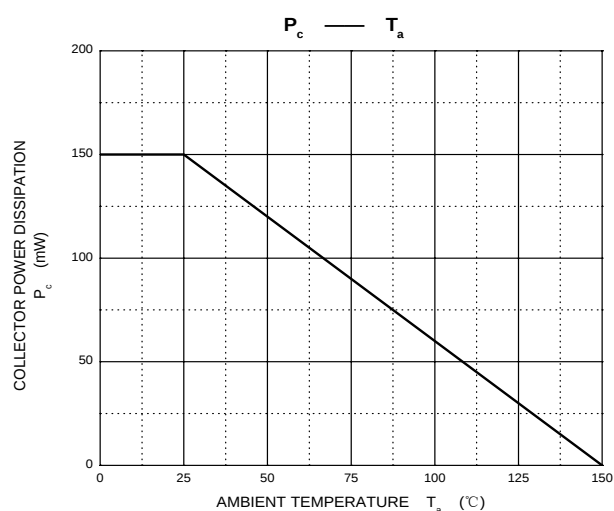
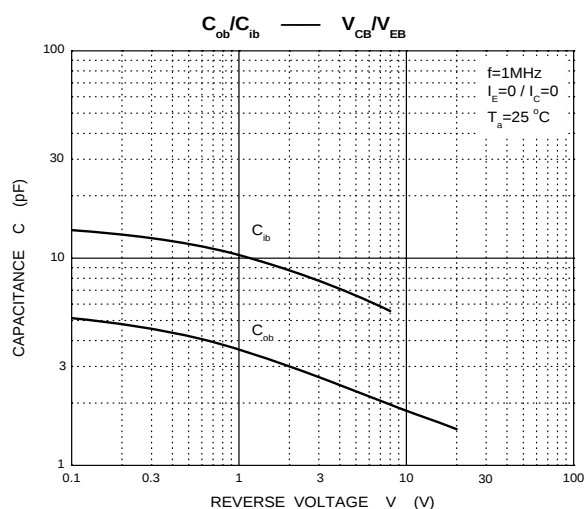
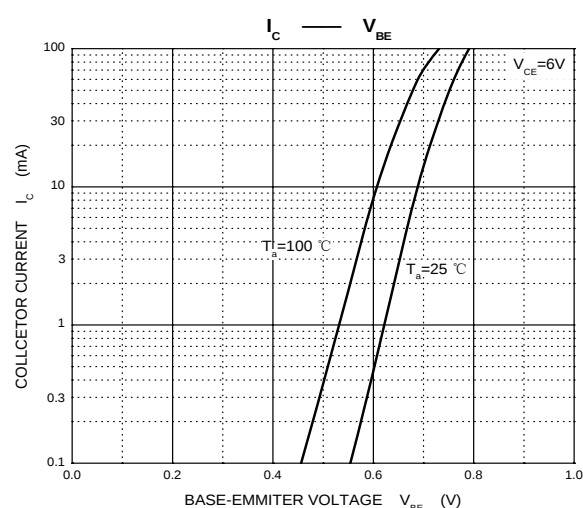
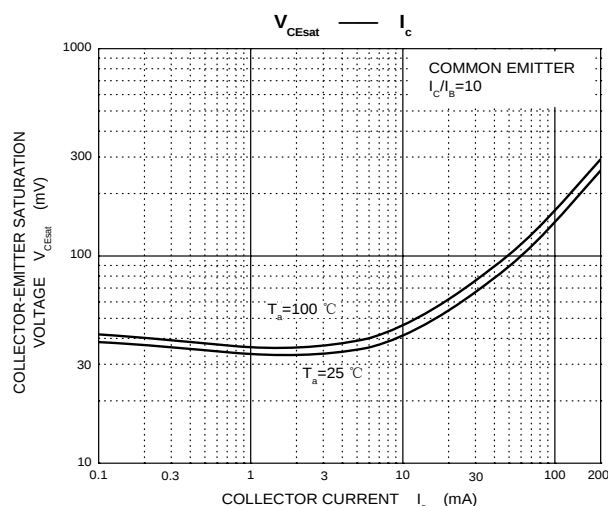
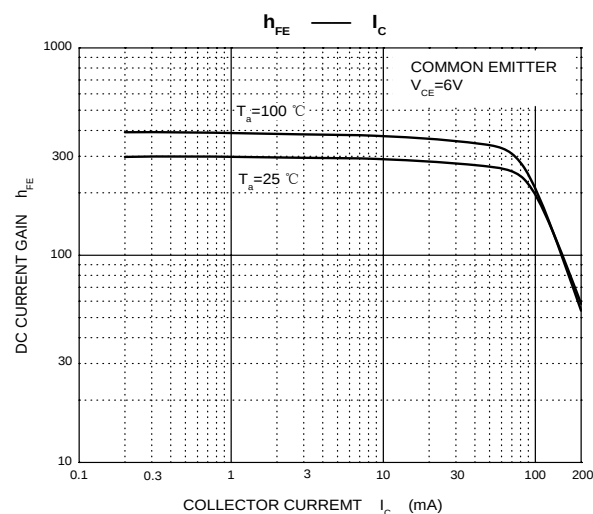
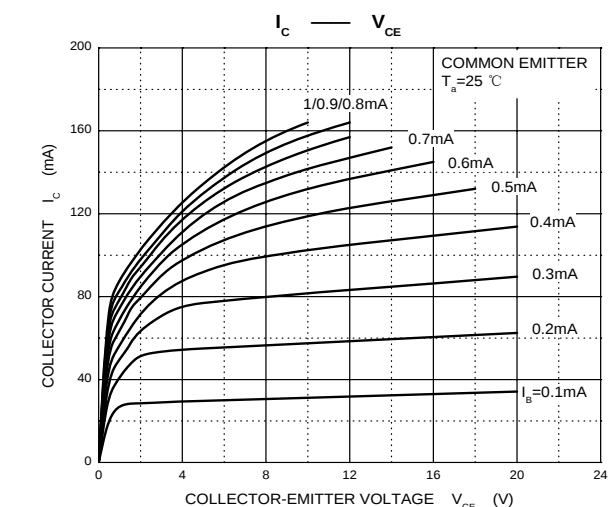
Maximum Ratings at Tc=25°C unless otherwise specified

Parameter	Test Condition	Symbol	Min	Typ	Max	Unit
Collector-base breakdown voltage	$I_C=50\mu A, I_E=0$	$V_{(BR)CBO}$	60	-	-	V
Collector-emitter breakdown voltage	$I_C=1mA, I_B=0$	$V_{(BR)CEO}$	50	-	-	V
Emitter-base breakdown voltage	$I_E=50\mu A, I_C=0$	$V_{(BR)EBO}$	7	-	-	V
Collector cut-off current	$V_{CB}=60V, I_E=0$	I_{CBO}	-	-	0.1	μA
Emitter cut-off current	$V_{EB}=7V, I_C=0$	I_{EBO}	-	-	0.1	μA
DC current gain	$V_{CE}=6V, I_C=1mA$	h_{FE}	120	-	560	
Collector-emitter saturation voltage	$I_C=50mA, I_B=5mA$	$V_{CE(sat)}$	-	-	0.4	V
Transition frequency	$V_{CE}=12V, I_C=2mA, f=100MHz$	f_T	-	180	-	MHz
Collector output capacitance	$V_{CB}=12V, I_E=0, f=1MHz$	C_{ob}	-	-	3.5	pF

CLASSIFICATION OF h_{FE}

Rank	2SC4617-Q	2SC4617-R	2SC4617-S
Range	120-270	180-390	270-560
Marking	BQ	BR	BS

Typical Characteristics



Ordering information

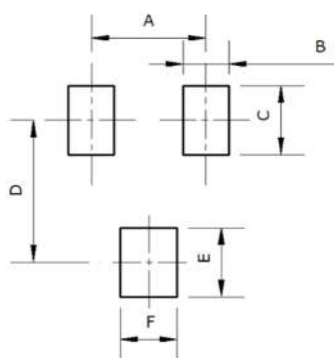
Package	Packing Description	Base Quantity	Packing Quantity
SOT-523	Tape/Reel, 7" reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-523

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	1.50	1.70	59	67
B	0.75	0.85	30	33
C	1.45	1.75	57	69
D	0.50TYP		0.020TYP	
E	0.90	1.10	35	43
G	0.00	0.10	0	4
H	0.60	0.80	24	31
J	0.10	0.20	4	8
K	0.15	0.35	6	14
L	0.26	0.46	10	18

The recommended mounting pad size



Millimeter (mm)	
Dim.	TYP
A	1.00
B	0.40
C	0.60
D	1.24
E	0.60
F	0.50

Disclaimer

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