SOT-523 Plastic-Encapsulate Transistors

2SC4617 TRANSISTOR (NPN)

FEATURES

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

SOT-523

- 1. BASE
- 2. EMITTER
- 3. COLLECTOR



MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current -Continuous	150	mA
Pc	Collector Power Dissipation	150	mW
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =50uA, I _E =0	60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =50uA, I _C =0	7			V
Collector cut-off current	I _{CBO}	V _{CB} =60V, I _E =0			0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =7V, I _C =0			0.1	μΑ
DC current gain	h _{FE}	$V_{CE}=6V$, $I_{C}=1mA$	120		560	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =50mA, I _B =5mA			0.4	٧
Transition frequency	f⊤	V _{CE} =12V, I _C =2mA, f=100MHz		180		MHz
Collector output capacitance	C _{ob}	V _{CB} =12V, I _E =0, f=1MHz			3.5	pF

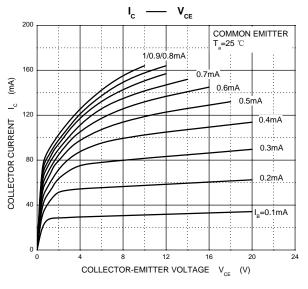
CLASSIFICATION OF hFE

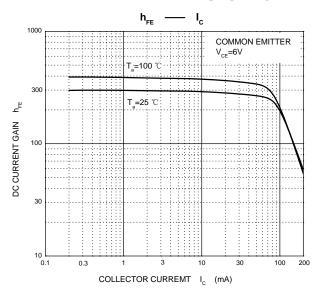
Rank	Q	R	S
Range	120-270	180-390	270-560
Marking	BQ	BR	BS

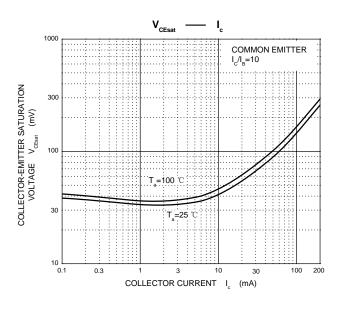
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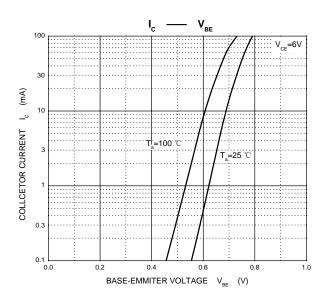
Typical Characteristics

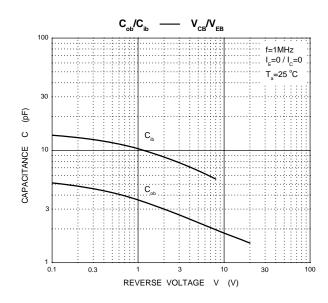
2SC4617

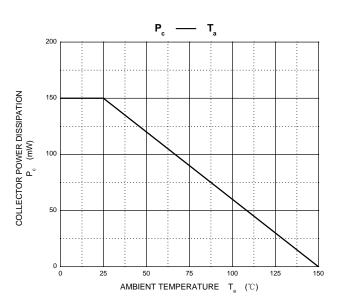






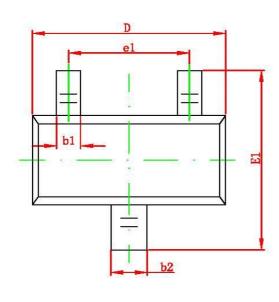


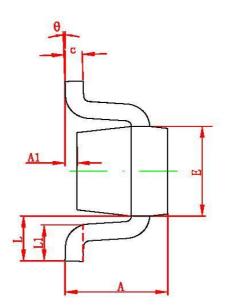


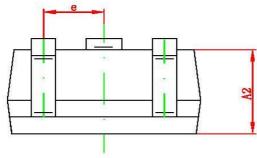


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SOT-523 PACKAGE OUTLINE DIMENSIONS







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min.	Max.	Min.	Max.	
Α	0.700	0.900	0.028	0.035	
A1	0.000	0.100	0.000	0.004	
A2	0.700	0.800	0.028	0.031	
b1	0.150	0.250	0.006	0.010	
b2	0.250	0.350	0.010	0.014	
С	0.100	0.200	0.004	0.008	
D	1.500	1.700	0.059	0.067	
Ε	0.700	0.900	0.028	0.035	
E1	1.450	1.750	0.057	0.069	
е	0.500	TYP.	YP. 0.020 TYP.		
e1	0.900	1.100	0.035	0.043	
L	0.400 REF.		0.016 REF.		
L1	0.260	0.460	0.010	0.018	
θ	0°	8°	0°	8°	

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