

### **Features**

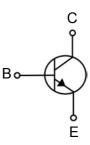
- Low Cob:Cob=2.0pF(Typ)
- Complement to 2SA1774



(SOT-416F)

## **Package Marking and Ordering Information**

•	•	•	
Product ID	Pack	Marking	Qty(PCS)
2SC4617	SOT-523 (SOT-416F)	BR	3000



## Maximum Ratings (Ta=25°C unless otherwise noted)

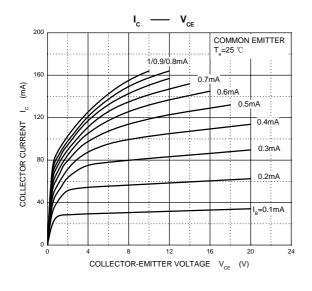
Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V <sub>CBO</sub>	V	
Collector-Emitter Voltage	V <sub>CEO</sub>	50	V
Emitter-Base Voltage	V <sub>EBO</sub>	6	V
Collector Current	I <sub>c</sub>	150	mA
Collector Power Dissipation	P <sub>c</sub>	150	mW
Thermal Resistance From Junction To Ambient	R <sub>OJA</sub>	833	°CW
Junction Temperature	T <sub>j</sub>	150	℃
Storage Temperature	T <sub>stg</sub>	-55∼+150	℃

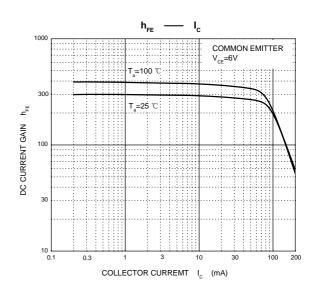


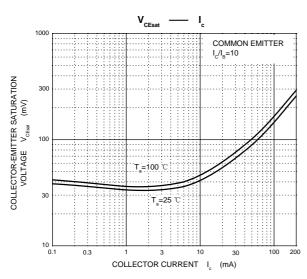
# Electrical Characteristics (Ta =25°C unless otherwise specified)

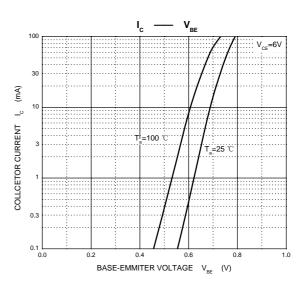
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> =50uA, I <sub>E</sub> =0	60			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =1mA, I <sub>B</sub> =0	50			٧
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =50uA, I <sub>C</sub> =0	7			>
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> =60V, I <sub>E</sub> =0			0.1	μΑ
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> =7V, I <sub>C</sub> =0			0.1	μA
DC current gain	h <sub>FE</sub>	$V_{CE}=6V$ , $I_{C}=1mA$	180		390	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I <sub>C</sub> =50mA, I <sub>B</sub> =5mA			0.4	<b>V</b>
Transition frequency	f⊤	V <sub>CE</sub> =12V, I <sub>C</sub> =2mA, f=100MHz		180		MHz
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> =12V, I <sub>E</sub> =0, f=1MHz			3.5	pF

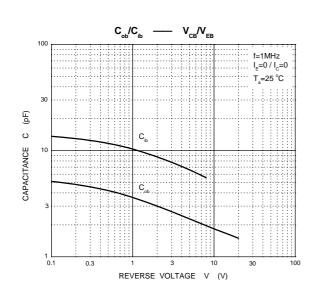
### **Typical Characteristics**

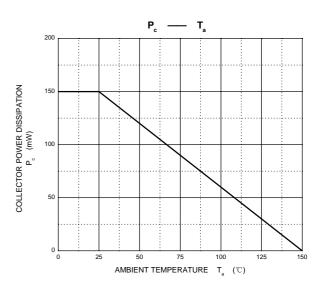






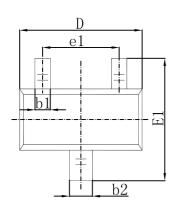


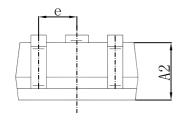


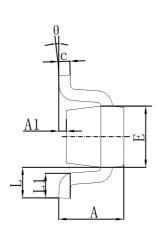




## SOT-523 (SOT-416F) Package Information







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	
Е	0.700	0.900	0.028	0.035	
E1	1.450	1.750	0.057	0.069	
е	0.500	TYP.	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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