Features

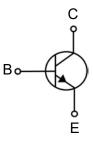
- Ideally suited for automatic insertion
- For switching and AF amplifier applications



SOT-323

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BC847CW	SOT-323	1G	3000



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

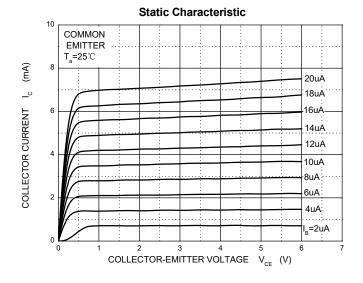
Symbol	Parameter	Limit	Unit
V _{CBO}	Collector-Base Voltage	50	V
V _{CEO}	Collector-Emitter Voltage	45	V
V _{EBO}	Emitter-Base Voltage	6	V
I _c	Collector Current	100	mA
P _c	Collector Power Dissipation	200	mW
R _{OJA}	Thermal Resistance From Junction To Ambient	625	°CW
T _j	T _j Junction Temperature		℃
T _{stg}	Storage Temperature	- 55∼+150	℃

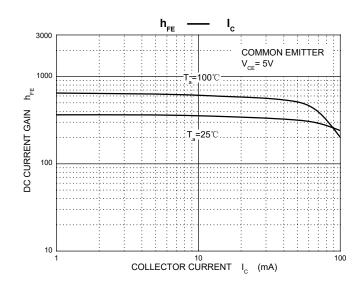


Electrical Characteristics (Ta=25°C unless otherwise specified)

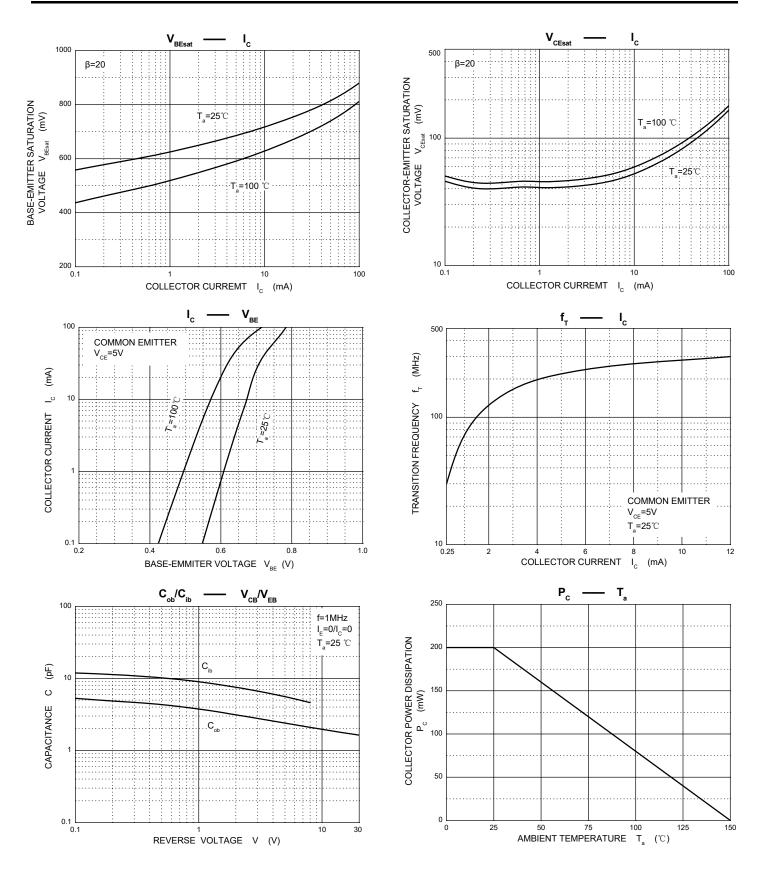
Symbol	Parameter	Testconditions	Min	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =10μΑ, I _E =0	50		V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =10mA, I _B =0	45		V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =10μΑ, I _C =0	6		V
І _{СВО}	Collector cut-off current	V_{CB} =70V, I_{E} =0 V_{CB} =50V, I_{E} =0 V_{CB} =30V, I_{E} =0		100	nA
I _{EBO}	Emitter cut-off current	V _{EB} =5V, I _C =0		100	nA
h _{FE}	DC current gain	V _{CE} =5V, I _C =2mA	420	800	
V _{CE(sat)}	Collector-emitter saturation voltage	I _C =100mA, I _B =5mA		0.5	V
V _{BE(sat)}	Base-emitter saturation voltage	IC-TOUTIA, IB-SITIA		1.1	V
f⊤	Transition frequency	V _{CE} =5V, I _C =10mA, f=30MHz	100		MHz
Cob	Collector output capacitance	V _{CB} =10V,f= 1MHz		4.5	pF

Typical Characteristics



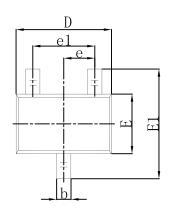


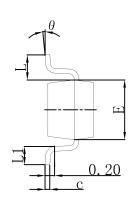


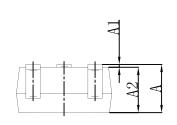




SOT-323 Package Outline Dimensions







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.200	0.400	0.008	0.016	
С	0.080	0.150	0.003	0.006	
D	2.000	2.200	0.079	0.087	
E	1.150	1.350	0.045	0.053	
E1	2.150	2.450	0.085	0.096	
е	0.650	0 TYP 0.026 TYP		TYP	
e1	1.200	1.400	0.047	0.055	
L	0.525 REF		0.021 REF		
L1	0.260	0.460	0.010	0.018	
K	0°	8°	0°	8°	



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