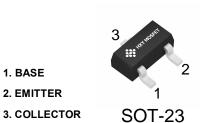


Features

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



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BCV72	SOT-23	1B	3000

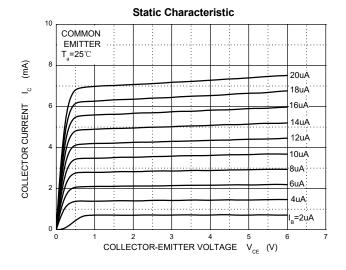
Maximum Ratings (Ta=25°C unless otherwise noted)

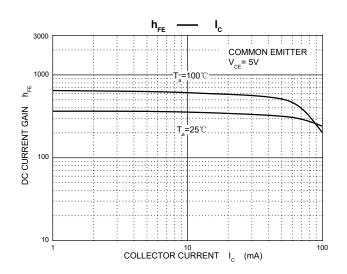
Symbol	Parameter	Limit	Unit
V_{CBO}	Collector-Base Voltage	80	٧
V _{CEO}	Collector-Emitter Voltage	65	V
V_{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current	100	mA
P _C	Collector Power Dissipation	200	mW
R _{OJA}	Thermal Resistance From Junction To Ambient	625	°C/W
T _j	Junction Temperature	150	℃
T _{stg}	Storage Temperature	- 55∼+150	°C

Electrcal Charcteristics (Ta=25°C unless otherwise specified)

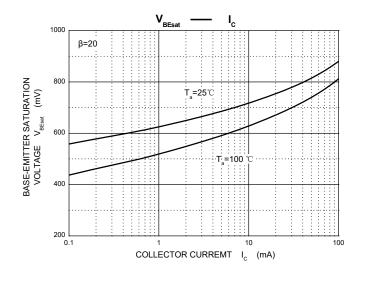
Symbol	Parameter	Test conditions	Min	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =10μΑ, I _E =0	80		V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =10mA, I _B =0	65		V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =10μΑ, I _C =0	6		V
Ісво	Collector cut-off current	V _{CB} =70V, 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	200	450	
V _{CE(sat)}	Collector-emitter saturation voltage	1 -400m A 1 -5m A		0.5	V
V _{BE(sat)}	Base-emitter saturation voltage	I _C =100mA, I _B =5mA		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

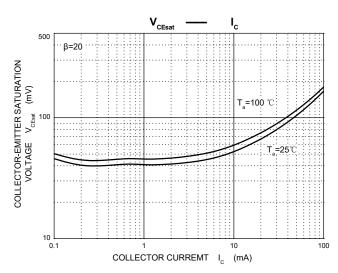
Typical Characteristics

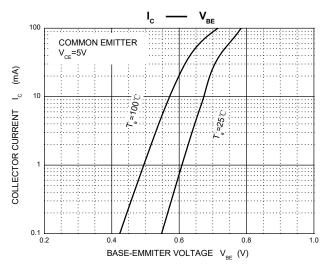


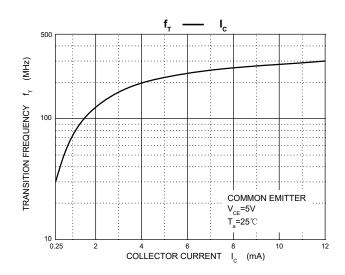


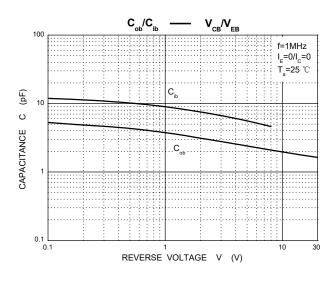


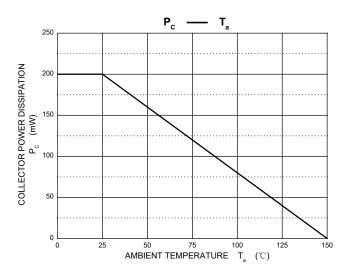






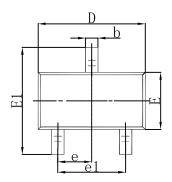


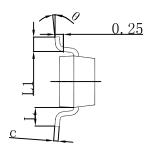


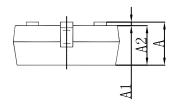




SOT-23 Package Outline Dimensions

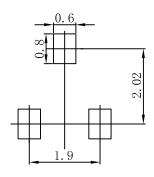






Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
Ĺ	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

SOT-23 Suggested Pad Layout



- Note: 1.Controlling dimension: in millimeters.
- 2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



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