

## **Features**

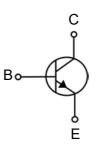
- High DC current gain :h<sub>FE</sub>=200(Typ) V<sub>CE</sub>=6V,I<sub>C</sub>=1mA
- High voltage:V<sub>CEO</sub>=50V



**SOT-23** 

## **Package Marking and Ordering Information**

Product ID	Pack	Marking	Qty(PCS)
BCX70GE6327	SOT-23	L6	3000



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

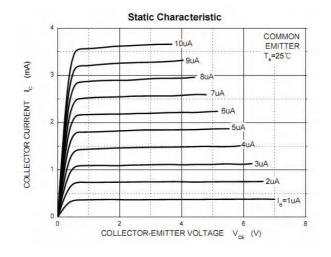
Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V <sub>CBO</sub>	60	V
Collector-Emitter Voltage	V <sub>CEO</sub>	50	V
Emitter-Base Voltage	V <sub>EBO</sub>	5	V
Collector Current	I <sub>C</sub>	100	mA
Collector Power Dissipation	P <sub>c</sub>	200	mW
Thermal Resistance From Junction To Ambient	R <sub>OJA</sub>	625	°CW
Junction Temperature	T <sub>j</sub>	150	℃
Storage Temperature	T <sub>stg</sub>	-55∼+150	°C

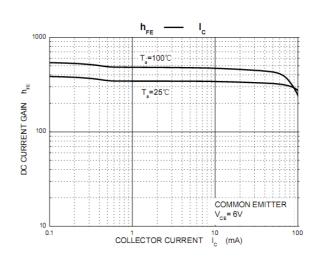


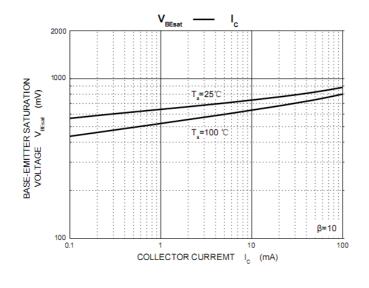
# Electrical Characteristics (Ta=25°C unless otherwise specified)

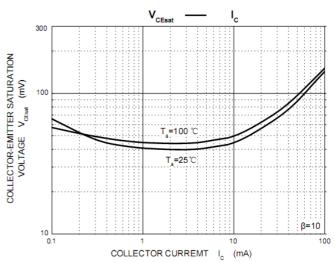
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> =100μA,I <sub>E</sub> =0	60			٧
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =1mA,I <sub>B</sub> =0	50			٧
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =100μΑ,I <sub>C</sub> =0	5			٧
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> =5V,I <sub>C</sub> =0			0.1	μΑ
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> =6V,I <sub>C</sub> =1mA	200		400	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =100mA,I <sub>B</sub> =10mA			0.3	V
Base-emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =100mA,I <sub>B</sub> =10mA			1	V
Transition frequency	f⊤	V <sub>CE</sub> =6V,I <sub>C</sub> =10mA		250		MHz

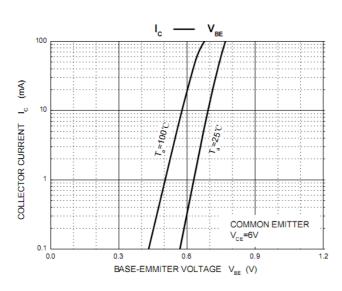
# **Typical Characteristics**

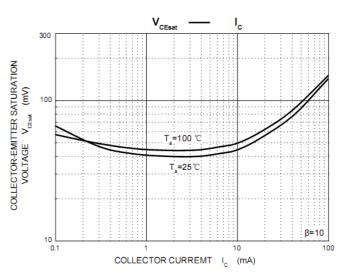


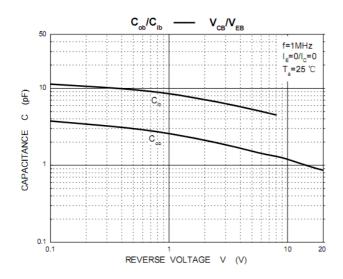


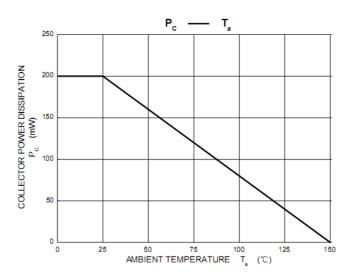




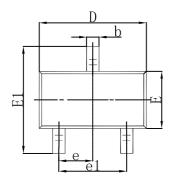


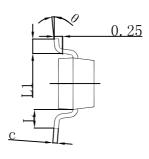


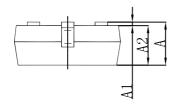




## **SOT-23 Package Outline Dimensions**

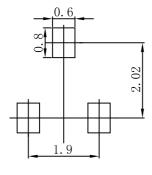






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	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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