

Features

- Collector Current: I_C=0.15A
- Power Dissipation of 200mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
2SC1815	SOT-23	HF	3000



SOT-23



Maxmim Ratings (Ta=25 unless otherwise noted)

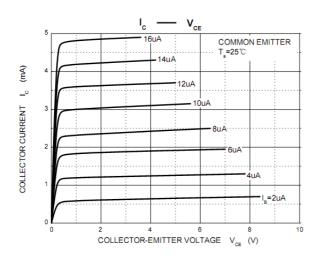
Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V _{сво}	60	V
Collector-Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	Ι _c	150	mA
Collector Power Dissipation	Pc	200	mW
Thermal Resistance From Junction To Ambient	R _{oja}	625	°C/W
Junction Temperature	Tj	150	°C
Storage Temperature	T _{stg}	-55~+150	°C

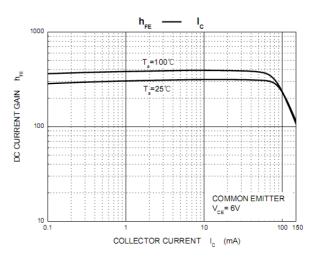


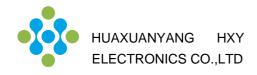
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100uA, I _E =0	60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 0.1mA, I _B =0	50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 100uA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =60V, I _E =0			0.1	uA
Emitter cut-off current	I _{EBO}	V _{EB} = 5V, I _C =0			0.1	uA
DC current gain	h _{FE}	V _{CE} = 6V, I _C = 2mA	130		400	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =100mA, I _B = 10mA			0.25	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C =100mA, I _B = 10mA			1	V
Transition frequency	fT	V _{CE} =10V, I _C = 1mA, f=30MHz	80			MHz

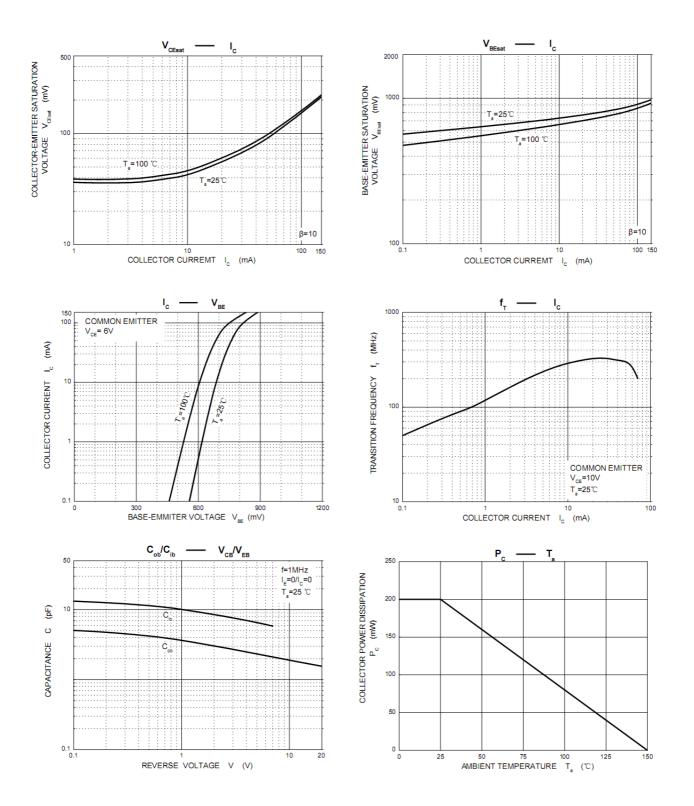
Electrcal Charcteristics (Ta=25 unless otherwise specified)

Typical Characteristics



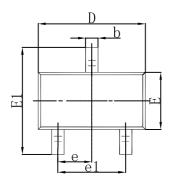


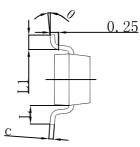


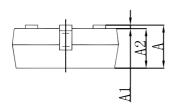




SOT-23 Package Outline Dimensions

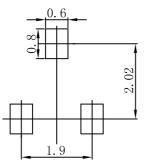






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
с	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950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