

SOT-23 Plastic-Encapsulate Transistors

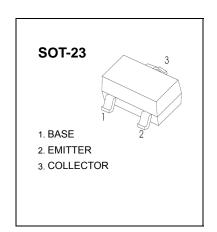
2SC1623 TRANSISTOR (NPN)

FEATURES

- High DC current gain :h_{FE}=200(Typ) V_{CE}=6V,I_C=1mA
- High voltage:V_{CEO}=50V

MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current -Continuous	100	mA
Pc	Collector Power Dissipation	200	mW
TJ	Junction Temperature	150	℃
T _{stg}	Storage Temperature	-55-150	℃



ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

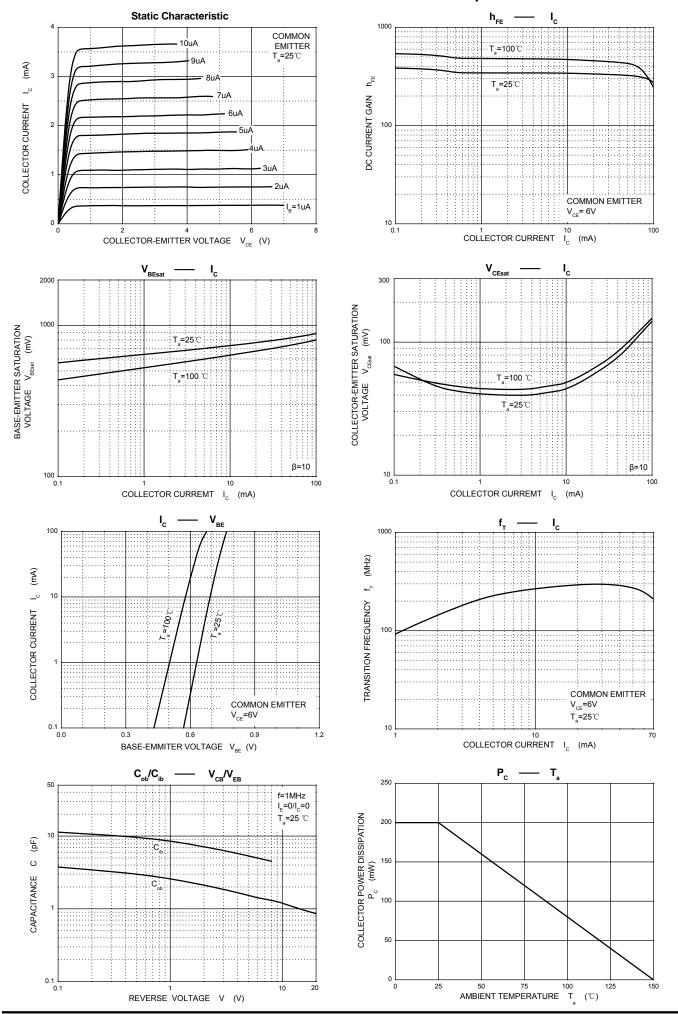
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA,I _E =0	60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA,I _C =0	5			٧
Collector cut-off current	I _{CBO}	V _{CB} =60V,I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			0.1	μA
DC current gain	h _{FE}	V _{CE} =6V,I _C =1mA	90	200	600	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =100mA,I _B =10mA			0.3	٧
Base-emitter saturation voltage	V _{BE(sat)}	I _C =100mA,I _B =10mA			1	V
Transition frequency	f _T	V _{CE} =6V,I _C =10mA		250		MHz

CLASSIFICATION OF hFE

Rank	L4	L5	L6	L7
Range	90-180	135-270	200-400	300-600
Marking	L4	L5	L6	L7



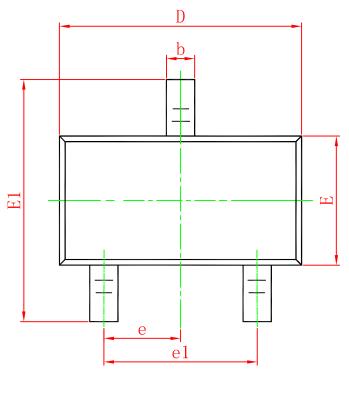
SOT-23 Plastic-Encapsulate Transistors

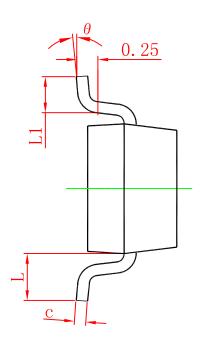


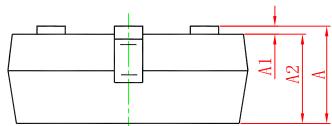


SOT-23 Plastic-Encapsulate Transistors

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°	