

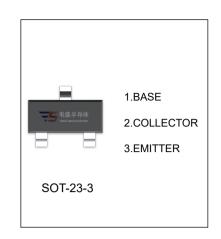
2SC1623 TRANSISTOR (NPN)

FEATURES

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

MAXIMUM RATINGS (T_a=25℃ 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	100	mA
Pc	Collector Power Dissipation	200	mW
R _{OJA}	Thermal Resistance From Junction To Ambient	625	°C/W
T_J, T_stg	Operation Junction and Storage Temperature Range	-55∼+150	°C



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			V
Collector cut-off current	I _{CBO}	V _{CB} =60V,I _E =0			0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			0.1	μΑ
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	V
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



