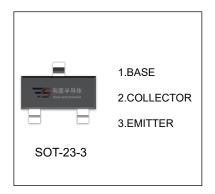


\$9014 TRANSISTOR (NPN)

FEATURES

Complementary to S9015



MAXIMUM RATINGS (T_a=25 $^{\circ}$ C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	50	V
V _{CEO}	Collector-Emitter Voltage	45	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	℃

ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100μΑ, I _E =0	50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 0.1mA, I _B =0	45			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μΑ, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =50 V , I _E =0			0.1	μА
Collector cut-off current	I _{CEO}	V _{CE} =35V , I _B =0			1	μА
Emitter cut-off current	I _{EBO}	V _{EB} = 3V , I _C =0			0.1	μА
DC current gain	h _{FE}	V _{CE} =5V, I _C = 1mA	200		1000	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =100 mA, I _B = 5mA			0.3	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C =100 mA, I _B = 5mA			1	V
Transition frequency	f _T	V _{CE} =5V, I _C = 10mA f=30MHz	150			MHz

CLASSIFICATION OF h_{FE}

Rank	L	Н
Range	200-450	450-1000



