

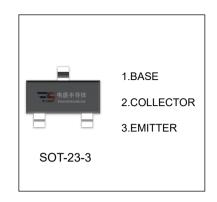
2SC2714 TRANSISTOR (NPN)

FEATURES

- Small reverse Transfer Capacitance: Cre=0.7pF(typ.)
- Low Noise Figure:NF=2.5dB(typ.) (f=100MHz)

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

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	40	V	
V _{CEO}	Collector-Emitter Voltage	30		
V _{EBO}	Emitter-Base Voltage	4	V	
Ic	Collector Current -Continuous	20	mA	
Pc	Collector Power Dissipation	100	mW	
R _{θJA}	Thermal Resistance from Junction to Ambient	nce from Junction to 1000		
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C	



ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =10μΑ,I _E =0	40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	30			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA,I _C =0	4			V
Collector cut-off current	I _{CBO}	V _{CB} =18V,I _E =0			0.5	μA
Emitter cut-off current	I _{EBO}	V _{EB} =4V,I _C =0			0.5	μA
DC current gain	h _{FE}	V _{CE} =6V,I _C =1mA	40		200	
Transition frequency	f _T	V _{CE} =6V,I _C =1mA		550		MHz
Reverse Transfer capacitance	C _{re}	V _{CB} =6V,I _E =0,f=1MHz		0.7		pF
Noise figure	NF	V _{CE} =6V,I _c =1mA,f=100MHZ		2.5	5	dB

CLASSIFICATION OF hFE

Rank	R	0	Υ
Range	40-80	70-140	100-200
Marking	QR	QO	QY



