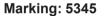


2SC5345 TRANSISTOR (NPN)

FEATURES

- RF amplifier
- High current transition frequency f_T=550MHz(Typ.), [Vc=6V, Ie=-1mA]
- Low output capacitance : Cob=1.4pF(Typ.) [VcB=6V, IE=0]
- Low base time constant and high gain
- Excellent noise response



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

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	30	V	
V _{CEO}	Collector-Emitter Voltage	20	V	
V _{EBO}	Emitter-Base Voltage	4	V	
Ic	Collector Current	20	mA	
Pc	Collector Power dissipation	300	mW	
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 =10μA, I _E =0	30			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =5mA, I _B =0	20			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA, I _C =0	4			V
Collector cut-off current	I _{CBO}	V _{CB} =30V, 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		240	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =10mA, I _B =1mA			0.3	V
Transition frequency	f _T	V _{CE} =6V, I _C =1mA		550		MHz
Collector output capacitance	C _{ob}	V _{CB} =6V, I _E =0, f=1MHz		1.4		pF

CLASSIFICATION OF hFE

Rank	R	0	Υ
Range	40-80	70-140	120-240