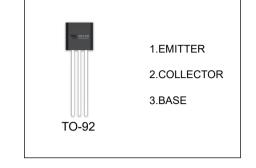


2SC5345 TRANSISTOR (NPN)

FEATURES

- High Current Transition Frequency
- Low Output Capacitance
- Low Base Time Constant and High Gain
- Excellent Noise Response



APPLICATIONS

RF Amplifier

ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC5345	TO-92	Bulk	1000pcs/Bag
2SC5345-TA	TO-92	Tape	2000pcs/Box

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	625	mW
R ₀ JA	Thermal Resistance From Junction To Ambient	200	°C /W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃



$T_a \text{=} 25\,^\circ\!\!\subset\,$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 0.01mA,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 =0.01mA,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(1)}	V _{CE} =6V, I _C =1mA	40		240	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =10mA,I _B =1mA			0.3	V
Collector output capacitance	C _{ob}	V _{CB} =6V,I _E =0, f=1MHz		1.4		pF
Transition frequency	f _T	Vce=6V,Ic=1mA		550		MHz

CLASSIFICATION OF h_{FE}

RANK	R	0	Υ
RANGE	40-80	70-140	120-240



