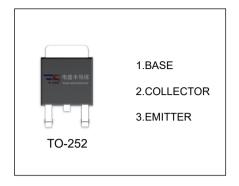


2SC3303 TRANSISTOR (NPN)

FEATURES

- Low Collector Saturation Voltage
- High Speed Switching Time



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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage	80	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current	5	А
Pc	Collector Power Dissipation	1	W
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	125	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}$

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I _C =100μA,I _E =0	100			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I _C =10mA,I _B =0	80			٧
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I _E =100μA,I _C =0	7			V
Collector cut-off current	I _{CBO}	V _{CB} =100V,I _E =0			1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =7V,I _C =0			1	μΑ
DC current gain	h _{FE(1)}	V _{CE} =1V, I _C =1A	70		240	
DC current gam	h _{FE(2)}	V _{CE} =1V, I _C =3A	40			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =3A,I _B =150mA			0.4	V
Base-emitter saturation voltage	$V_{BE(sat)}$	I _C =3A,I _B =150mA			1.2	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0, f=1MHz		80		pF
Transition frequency	f⊤	V _{CE} =4V,I _C =1A,		20		MHz

CLASSIFICATION OF h_{FE(1)}

RANK	0	Υ
RANGE	70-140	120-240



