

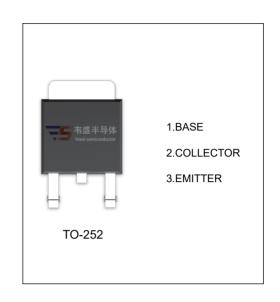
2SC4003 TRANSISTOR (NPN)

FEATURES

High h_{FE} h_{FE}=60 to 200
low V_{CE(sat)} V_{CE(sat)}=0.6V

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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	400	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current -Continuous	0.2	Α
Pc	Collector Power Dissipation	1	W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55-150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	T est conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =10μA,I _E =0	400			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	400			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =300V,I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =4V,I _C =0			0.1	μA
DC current gain	h _{FE}	V _{CE} =10V,I _C =50mA	60		200	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =50mA,I _B =5mA			0.6	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =50mA,I _B =5mA	·		1	٧
Transition frequency	f _T	V _{CE} =30V,I _C =10mA	70			MHz

CLASSIFICATION OF hFE

Rank	D	E
Range	60-120	100-200



