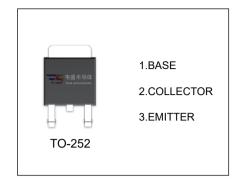


2SC2983 TRANSISTOR (NPN)

FEATURES

High Transition Frequency



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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	160	V
V _{CEO}	Collector-Emitter Voltage	160	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	1.5	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°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I _C =1mA,I _E =0	160			V
Collector-emitter breakdown voltage	V _{(BR)CEO} *	I _C =10mA,I _B =0	160			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =1mA,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =160V,I _E =0			1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			1	μΑ
DC current gain	h _{FE}	V _{CE} =5V, I _C =100mA	70		240	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500mA,I _B =50mA			1.5	V
Base-emitter voltage	V_{BE}	V _{CE} =5V, I _C =500mA			1	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0, f=1MHz		25		pF
Transition frequency	f _T	V _{CE} =10V,I _C =100mA,		100		MHz

^{*}Pulse test

CLASSIFICATION OF h_{FE}

RANK	0	Y
RANGE	70-140	120-240



