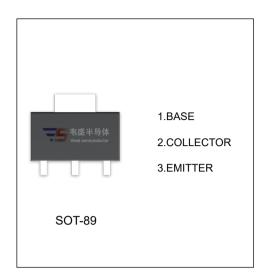


2SC2383 TRANSISTOR (NPN)

FEATURE

High voltage: V_{CEO}=160V

• Large continuous collector current capability



MAXIMUM RATINGS (T_A =25 $^{\circ}$ 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	6	V
Ic	Collector Current -Continuous	1	А
Pc	Collector Power Dissipation	0.5	W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}$

ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100μA , 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 = 10μA, I _C =0	6		V
Collector cut-off current	I _{CBO}	V _{CB} =150V, I _E =0		1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =6V, I _C =0		1	μΑ
DC current gain	h _{FE}	V _{CE} =5V, I _C =200mA	100	320	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500m A, I _B =50mA		1	V
Base-emitter voltage	V _{BE}	I _C =5mA, V _{CE} = 5V	0.45	0.75	V
Transition frequency	f _T	V _{CE} =5V, I _C =200mA	20		MHz
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0,f=1MHz		20	pF

^{*}pulse test

CLASSIFICATION OF hFE

Rank	0	Υ	
Range 100-200		160-320	



