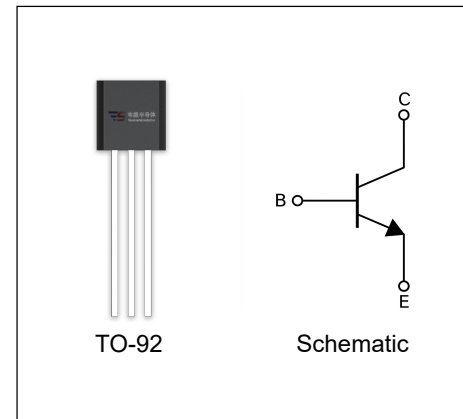


2SC2383 TRANSISTOR (NPN)

FEATURE

- High Voltage: $V_{CE0}=160V$
- Large Continuous Collector Current Capability
- Complementary to 2SA1013



MAXIMUM RATINGS ($T_a=25\text{ }^{\circ}\text{C}$ 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
I_c	Collector Current -Continuous	1	A
P_c	Collector Power Dissipation	0.9	W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55 to +150	$^{\circ}\text{C}$

T_a=25 °C 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	μA
Collector cut-off current	I _{CER}	V _{CB} =150V, R _{EB} = 10MΩ		10	μA
Emitter cut-off current	I _{EBO}	V _{EB} =6V, I _C =0		1	μA
DC current gain	h _{FE1}	V _{CE} =5V, I _C =200mA	60	320	
	h _{FE2}	V _{CE} =5V, I _C =10mA	40		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500mA, I _B =50mA		1	V
Base-emitter voltage	V _{BE}	I _C =5mA, V _{CE} = 5V		0.75	V
Transition frequency	f _T	V _{CE} =5V, I _C =200mA	20		MHz

CLASSIFICATION OF h_{FE1}

Rank	R	O	Y
Range	60-120	100-200	160-320