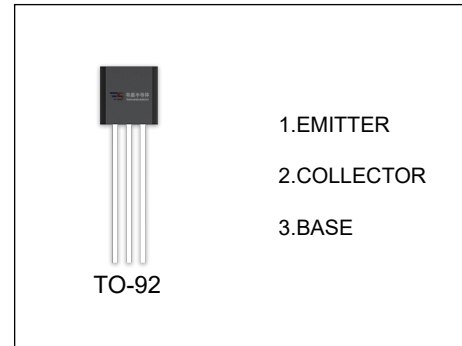


2SC2551 TRANSISTOR (NPN)

FEATURES

- High voltage
- Low saturation voltage
- Small collector output capacitance
- Complementary to 2SA1091



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC2551	TO-92	Bulk	1000pcs/Bag
2SC2551-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	300	V
V_{CEO}	Collector-Emitter Voltage	300	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current -Continuous	100	mA
P_C	Collector power dissipation	400	mW
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55-150	$^{\circ}\text{C}$

$T_a=25\text{ }^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu\text{A}, I_E=0$	300			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1\text{mA}, I_B=0$	300			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu\text{A}, I_C=0$	6			V
Collector cut-off current	I_{CBO}	$V_{CB}=300\text{V}, I_E=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=6\text{V}, I_C=0$			0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=10\text{V}, I_C=20\text{mA}$	30		150	
	$h_{FE(2)}$	$V_{CE}=10\text{V}, I_C=1\text{mA}$	20			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=20\text{mA}, I_B=2\text{mA}$			0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=20\text{mA}, I_B=2\text{mA}$			1.2	V
Transition frequency	f_T	$V_{CE}=10\text{V}, I_C=20\text{mA}$		80		MHz
Collector output capacitance	C_{ob}	$V_{CB}=20\text{V}, I_E=0, f=1\text{MHz}$			4	pF

CLASSIFICATION OF $h_{FE(1)}$

Rank	R	O
Range	30-90	50-150