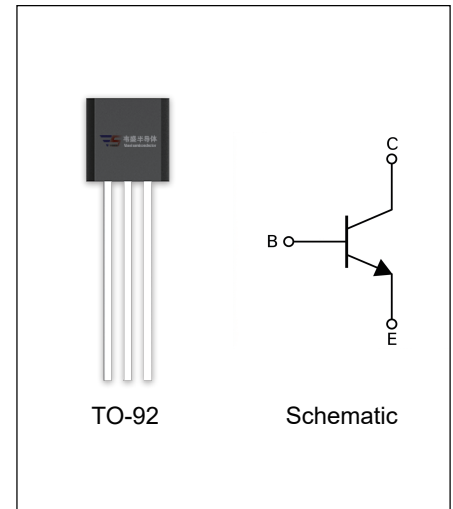


2SC2236 TRANSISTOR (NPN)

FEATURE

- Complementary to 2SA966 and 3 Watts output Applications.



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

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
I _c	Collector Current -Continuous	1.5	A
P _c	Collector Power Dissipation	0.9	W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=1\text{mA}$, $I_E=0$	30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=10\text{mA}$, $I_B=0$	30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=1\text{mA}$, $I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=30\text{V}$, $I_E=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=5\text{V}$, $I_C=0$			0.1	μA
DC current gain	h_{FE}	$V_{CE}=2\text{V}$, $I_C=500\text{mA}$	100		320	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=1.5\text{A}$, $I_B=0.03\text{A}$			2	V
Base-emitter voltage	V_{BE}	$I_C=500\text{mA}$, $V_{CE}=2\text{V}$			1	V
Transition frequency	f_T	$V_{CE}=2\text{V}$, $I_C=500\text{mA}$		120		MHz
Collector output Capacitance	C_{ob}	$V_{CB}=10\text{V}$, $I_E=0$, $f=1\text{MHz}$			30	pF

CLASSIFICATION OF h_{FE}

Rank	O	Y
Range	100-200	160-320

