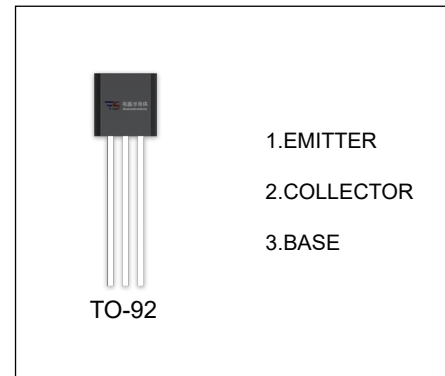


2SC1923 TRANSISTOR (NPN)

FEATURES

- General Purpose Switching Application



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC1923	TO-92	Bulk	1000pcs/Bag
2SC1923-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	4	V
I _C	Collector Current	0.02	A
P _C	Collector Power Dissipation	100	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	1250	°C /W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=0.1\text{mA}, I_E=0$	40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1\text{mA}, I_B=0$	30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=0.1\text{mA}, I_C=0$	4			V
Collector cut-off current	I_{CBO}	$V_{CB}=18\text{V}, I_E=0$			0.5	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=4\text{V}, I_C=0$			0.5	μA
DC current gain	h_{FE}	$V_{CE}=6\text{V}, I_C=1\text{mA}$	40		200	
Transition frequency	f_T	$V_{CE}=6\text{V}, I_C=1\text{mA}$		550		MHz

CLASSIFICATION OF h_{FE}

RANK	R	O	Y
RANGE	40-80	70-140	100-200

Static Characteristic

