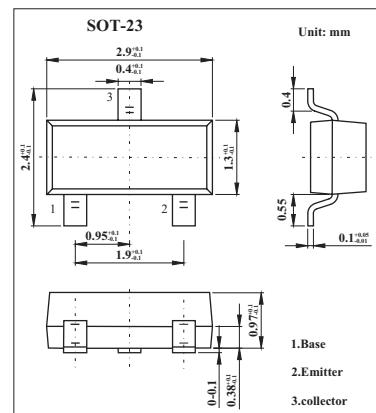


2SC3906K

■ Features

- High breakdown voltage.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	120	V
Collector-emitter voltage	V _{CCEO}	120	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _C	50	mA
Collector power dissipation	P _C	0.2	W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-base breakdown voltage	BV _{CBO}	I _C =50µA	120			V
Collector-emitter breakdown voltage	BV _{CCEO}	I _C =1mA	120			V
Emitter-base breakdown voltage	BV _{EBO}	I _E =50µA	5			V
Collector cutoff current	I _{CB0}	V _{CB} =100V			0.5	µA
Emitter cutoff current	I _{EB0}	V _{EB} =4V			0.5	µA
DC current transfer ratio	h _{FE}	V _{CE} =6V, I _C =2mA	180		560	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =10mA, I _B =1mA			0.5	V
Output capacitance	f _T	V _{CE} =-12V, I _E = 2mA, f=100MHz	140			MHz
Transition frequency	C _{ob}	V _{CB} =-12V, I _E =0A, f=1MHz			2.5	pF

■ hFE Classification

Marking	TR	TS
Rank	R	S
hFE	180~390	270~560