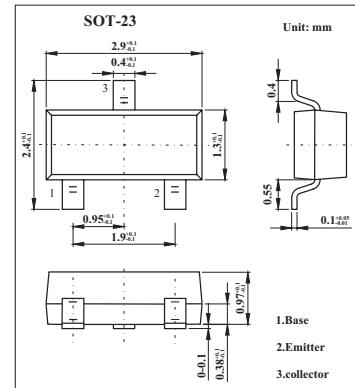


Silicon NPN Epitaxial

2SC4209

■ Features



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	80	V
Collector-emitter voltage	V _{CEO}	80	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _C	300	mA
Base current	I _B	60	mA
Collector power dissipation	P _C	200	mW
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 cut-off current	I _{CBO}	V _{CB} = 50 V, I _E = 0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0			0.1	μA
Collector-emitter breakdown voltage	V _(BR) _{CEO}	I _C = 5mA , I _B = 0	80			V
DC current gain	h _{FE}	V _{CE} = 2 V, I _C = 50 mA	70		240	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C = 200 mA, I _B = 10 mA			0.5	V
Base-emitter voltage	V _{BE}	V _{CE} = 2 V, I _C = 5 mA	0.55		0.8	V
Transition frequency	f _T	V _{CE} = 10 V, I _C = 10 mA		100		MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz		10		pF

■ hFE Classification

Marking	C	
Rank	O	Y
hFE	70~140	120~240