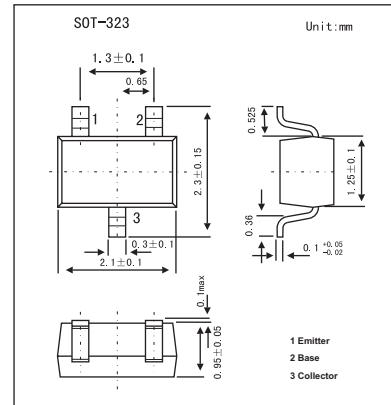


Silicon NPN Epitaxial Planar

2SC3930

■ Features

- Optimum for RF amplification of FM/AM radios.
- High transition frequency fr.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	30	V
Collector-emitter voltage	V _{CEO}	20	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _C	30	mA
Collector power dissipation	P _C	150	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector-base cutoff current	I _{CBO}	V _{CB} = 10 V, I _E = 0			0.1	μA
Forward current transfer ratio	h _{FE}	V _{CB} = 10 V, I _E = -1 mA	70		220	
Transition frequency	f _T	V _{CB} = 10 V, I _E = -1 mA, f = 200 MHz	150	250		MHz
Noise figure	N _f	V _{CB} = 10 V, I _E = -1 mA, f = 5 MHz		2.8	4.0	dB
Reverse transfer impedance	Z _{rb}	V _{CB} = 10 V, I _E = -1 mA, f = 2 MHz		22	50	Ω
Reverse transfer capacitance	C _{re}	V _{CB} = 10 V, I _E = -1 mA, f = 10.7 MHz		0.9	1.5	pF

■ hFE Classification

Marking	VB	VC
hFE	70~140	110~220