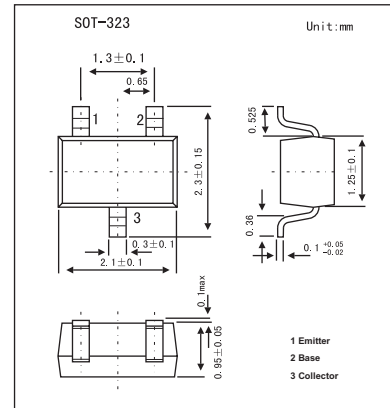


■ Features

- Small reverse transfer capacitance: $C_{re} = 0.55 \text{ pF (typ.)}$
- Low noise figure: $NF = 2\text{dB (typ.)}$ ($f = 100 \text{ MHz}$)



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	40	V
Collector-emitter voltage	V_{CEO}	30	V
Emitter-base voltage	V_{EBO}	4	V
Collector current	I_C	20	mA
Base current	I_B	4	mA
Collector power dissipation	P_C	100	mW
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector cut-off current	I_{CBO}	$V_{CB} = 40 \text{ V}, I_E = 0$			0.1	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	
Reverse transfer capacitance	C_{re}	$V_{CB} = 10 \text{ V}, f = 1\text{MHz}$		0.55		pF
Transition frequency	f_T	$V_{CE} = 6 \text{ V}, I_C = 1 \text{ mA}$	260	550		MHz
Collector-base time constant	$C_{c,rb}'$	$V_{CB} = 6 \text{ V}, I_E = -1\text{mA}, f = 30 \text{ MHz}$			25	ps
Noise figure	NF	$V_{CC} = 6\text{V}, I_E = -1\text{mA}, f = 100\text{MHz}$		2	5	dB
Power gain	G_{pe}		17	23		dB

■ hFE Classification

Marking	QR	QO	QY
hFE	40~80	70~140	100~200