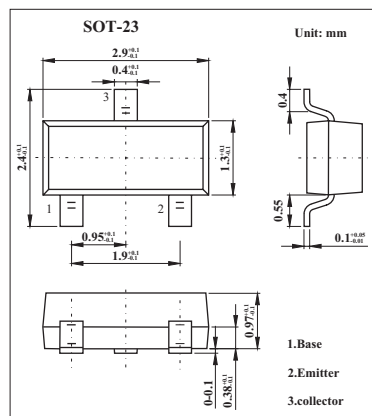


■ Features

- High stability oscillation voltage on FM local oscillator.
- Recommend FM/AM RF, MIX, local and IF.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V <sub>CB0</sub>	40	V
Collector-emitter voltage	V <sub>CEO</sub>	30	V
Emitter-base voltage	V <sub>EB0</sub>	4	V
Collector current	I <sub>C</sub>	50	mA
Emitter current	I <sub>E</sub>	-50	mA
Collector power dissipation	P <sub>C</sub>	150	mW
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature range	T <sub>stg</sub>	-55 to +125	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cut-off current	I <sub>CB0</sub>	V <sub>CB</sub> = 40 V, I <sub>E</sub> = 0			0.1	μA
Emitter cut-off current	I <sub>EB0</sub>	V <sub>EB</sub> = 4 V, I <sub>C</sub> = 0			0.5	μA
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = 6V, I <sub>C</sub> = 1mA	40		240	
Reverse transfer capacitance	C <sub>re</sub>	V <sub>CB</sub> = 6V, f = 1 MHz		0.9	1.3	pF
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = 6V, I <sub>C</sub> = -1 mA	150	350		MHz
Collector-base time constant	C <sub>cerbb</sub>	V <sub>CE</sub> = 6 V, I <sub>E</sub> = -1mA, f = 30 MHz		15	30	ps
Noise figure	NF	V <sub>CE</sub> = 6 V, I <sub>E</sub> = -1mA, f = 100 MHz		4.0		dB
Power gain	G <sub>pe</sub>			15		dB
Oscillation output voltage	V <sub>osc</sub>	V <sub>CE</sub> = 6 V, f = 100 MHz		150		mV

■ hFE Classification

Marking	GR	GO	GY
hFE	40~80	70~140	120~240