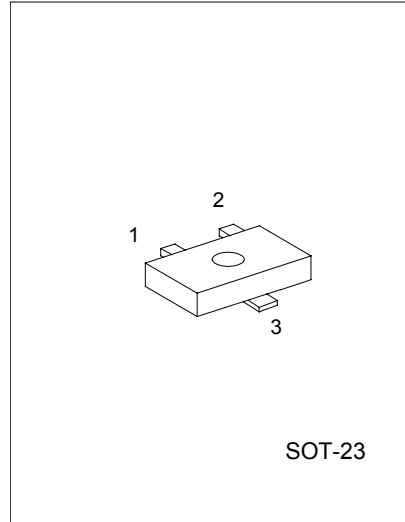
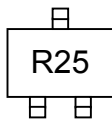


HIGH FREQUENCY LOW NOISE
AMPLIFIER

FEATURES

- *Low Noise and High Gain
- *High Power Gain

MARKING



SOT-23

1: EMITTER 2: BASE 3: COLLECTOR

ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CB0}	20	V
Collector-emitter voltage	V _{CEO}	12	V
Emitter-base voltage	V _{EB0}	3	V
Collector current	I _C	100	mA
Total power dissipation	P _T	200	mW
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-65 ~ +150	°C

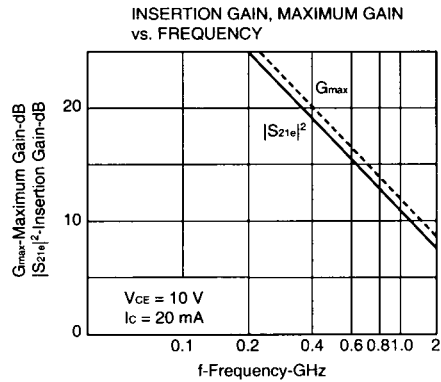
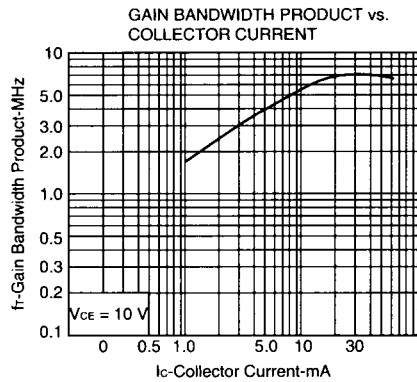
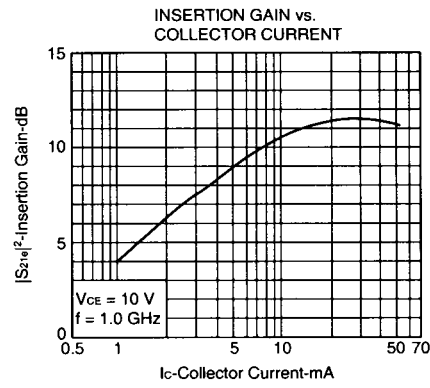
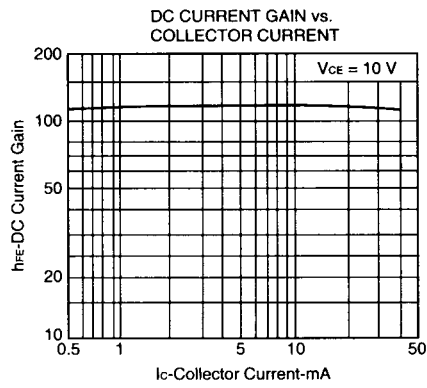
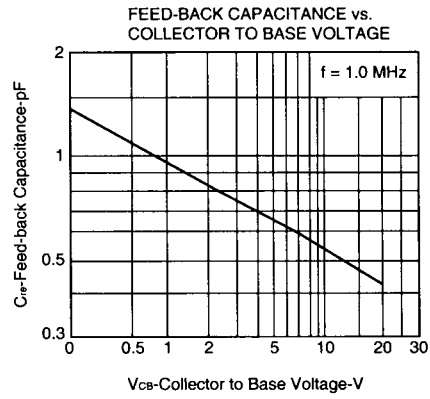
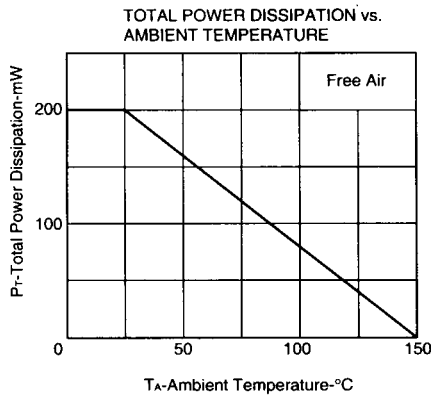
ELECTRICAL CHARACTERISTICS (T_a=25°C, unless otherwise specified)

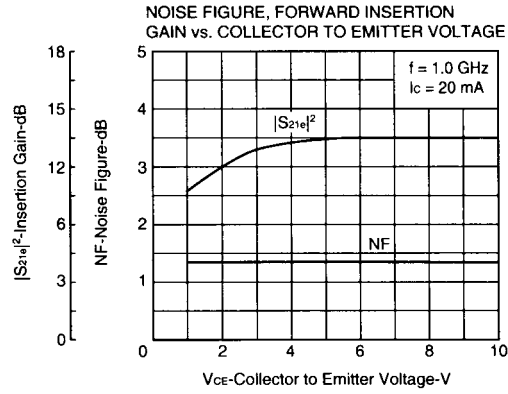
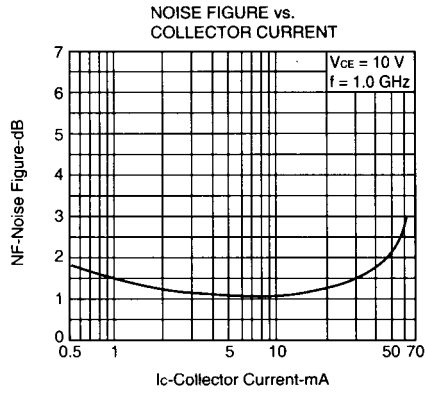
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cutoff Current	I _{CB0}	V _{CB} =10V, I _E =0			1.0	μA
Emitter Cutoff Current	I _{EB0}	V _{EB} =1V, I _C =0			1.0	μA
DC Current Gain	h _{FE}	V _{CE} =10V, I _C =20mA	50		300	
Gain bandwidth Product	f _T	V _{CE} =10V, I _C =20mA		7		GHz
Feed-Back Capacitance	C _{re}	V _{CB} =10V, I _E =0, f=1.0MHz			1.0	pF
Noise figure	NF	V _{CE} =10V, I _C =7mA, f=1.0GHz			2.0	dB

CLASSIFICATION OF h_{FE}

RANK	A	B	C
RANGE	50-160	160-240	240-300

TYPICAL CHARACTERISTICS (TA=25°C)





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