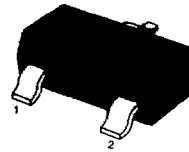


MIXER, OSCILLATOR FOR UHF TUNER

ABSOLUTE MAXIMUM RATINGS (T_A = 25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CB0}	30	V
Collector-Emitter Voltage	V _{CE0}	14	V
Emitter-Base Voltage	V _{EB0}	3	V
Collector Current	I _C	50	mA
Collector Dissipation	P _C	150	mW
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55~150	°C

SOT-23



1. Base 2. Emitter 3. Collector

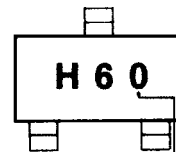
ELECTRICAL CHARACTERISTICS (T_A = 25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Cutoff Current	I _{CS0}	V _{CB} = 15V, I _E = 0			0.1	μA
DC Current Gain	h _{FE}	V _{CE} = 10V, I _C = 5mA	40	100	180	
Current Gain Bandwidth Product	f _T	V _{CE} = 10V, I _C = 5mA	1.5	2		GHz
Output Capacitance	C _{OB}	V _{CB} = 10V, I _E = 0, f = 1MHz		1	1.3	pF
Conversion Gain	G _{CB}	V _{CB} = 10V, I _E = 5mA f _{RF} = 900MHz, f _{osc} = 935MHz 115dB μ	10	12.5		dB

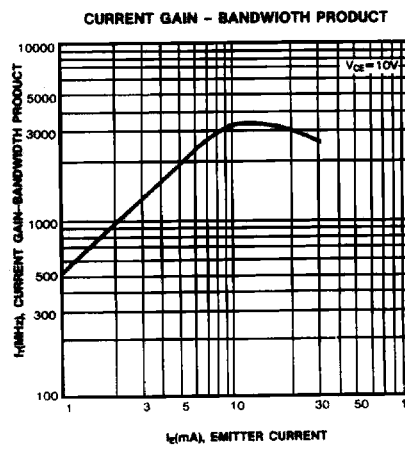
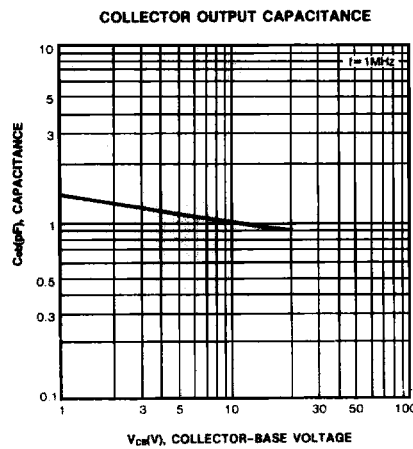
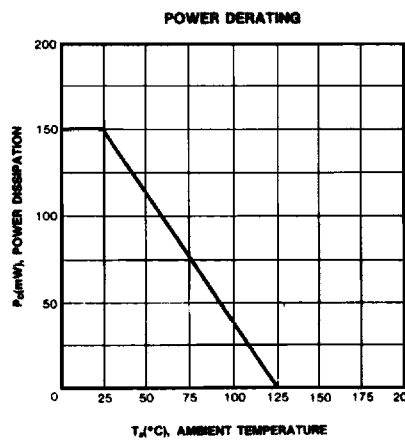
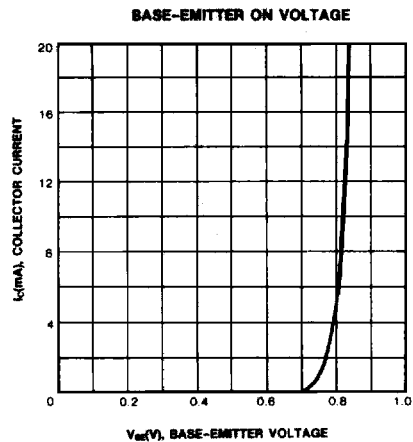
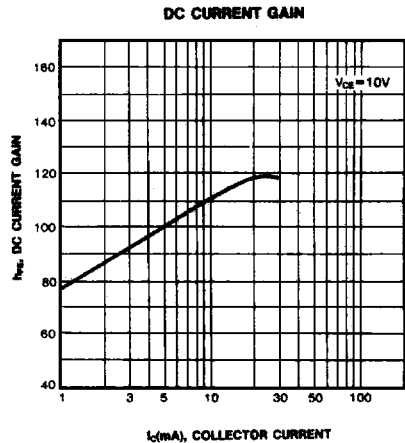
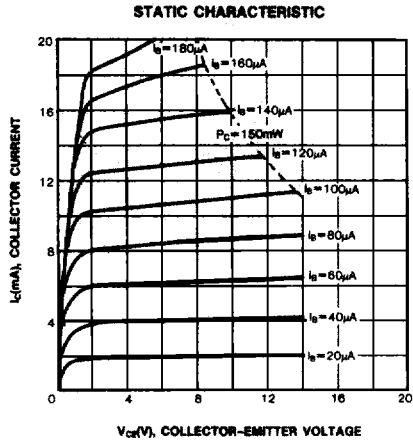
h_{FE} CLASSIFICATION

Classification	R	O	Y
h _{FE}	40-80	60-120	90-180

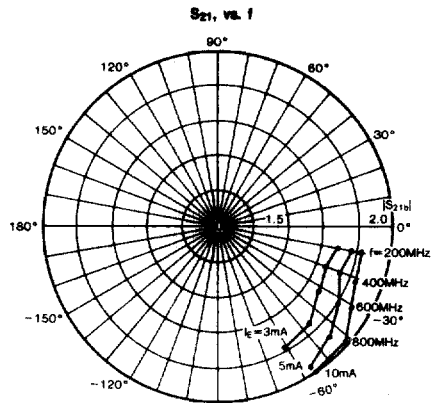
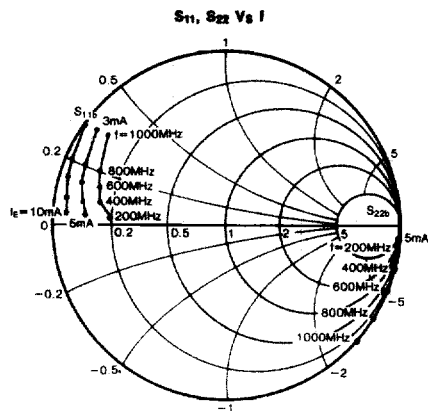
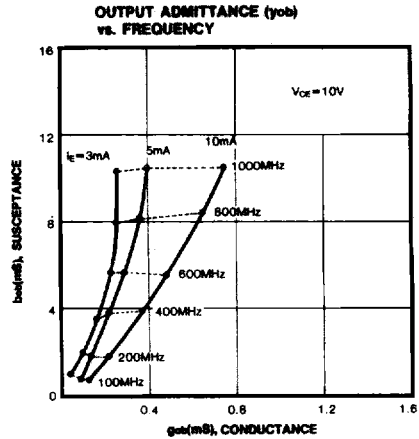
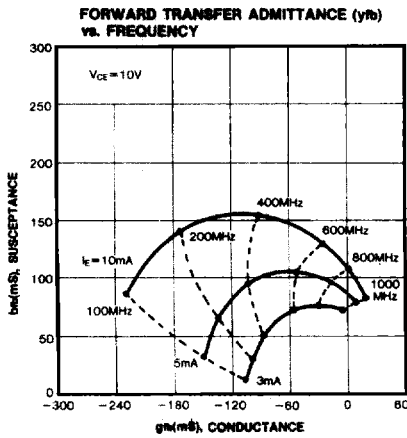
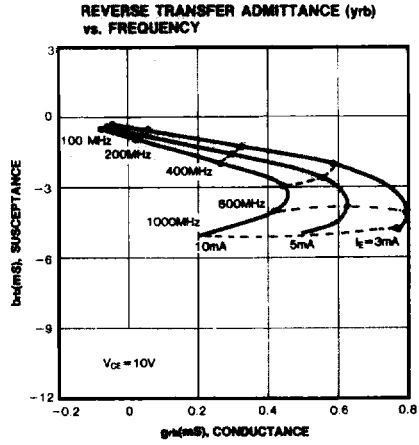
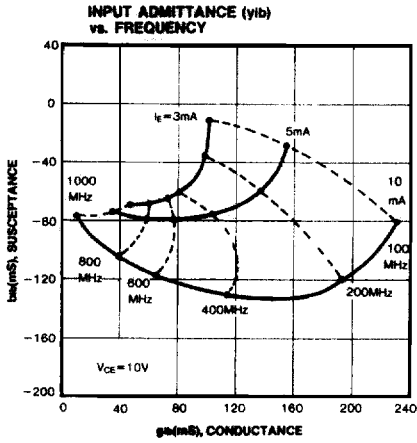
Marking

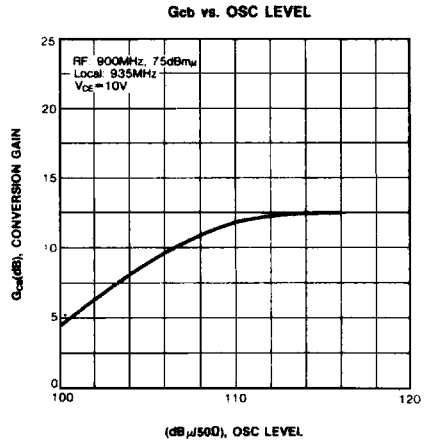
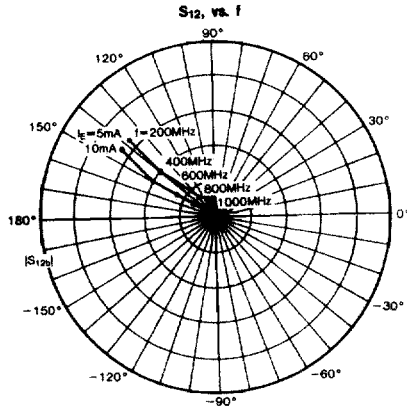


h_{FE} grade

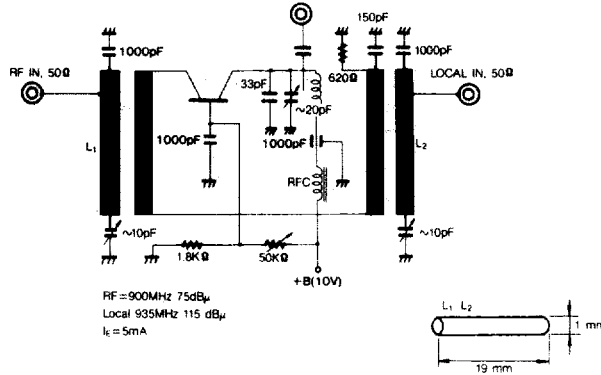


3





G_{c01} TEST CIRCUIT



3