

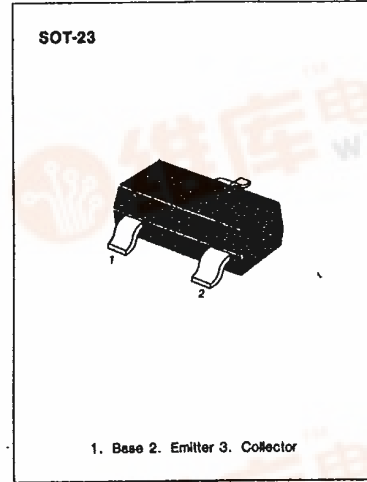
KSC2759 NPN EPITAXIAL SILICON TRANSISTOR

T-31-15

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



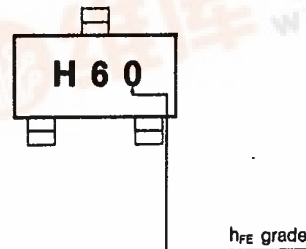
ELECTRICAL CHARACTERISTICS (T_a = 25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Cutoff Current	I _{cb0}	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 115dBμ	10	12.5		dB

h_{FE} CLASSIFICATION

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

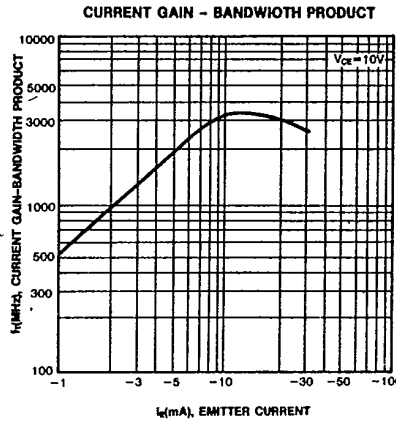
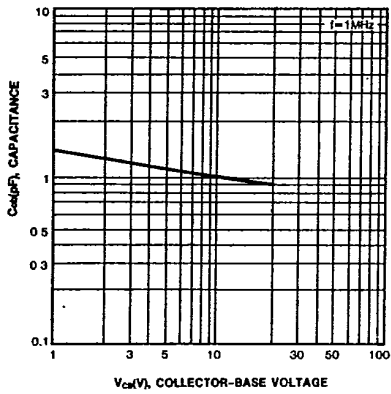
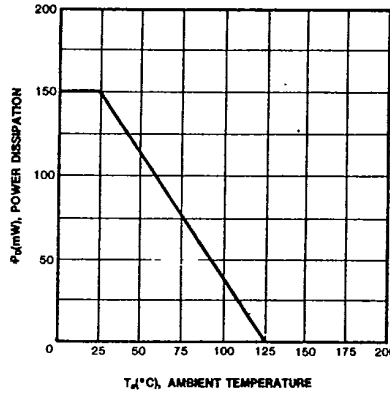
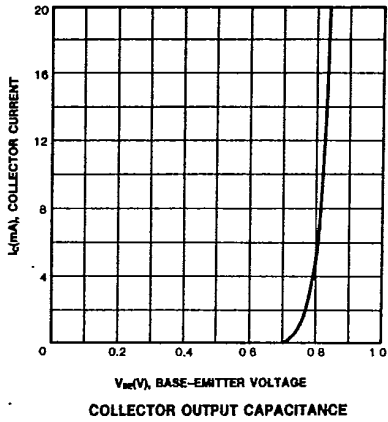
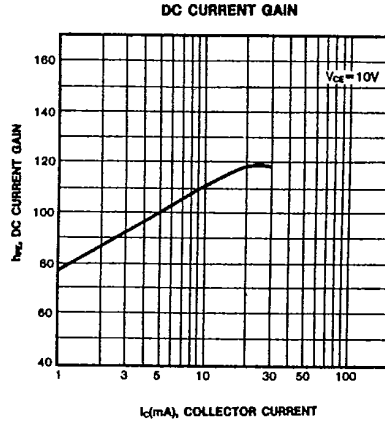
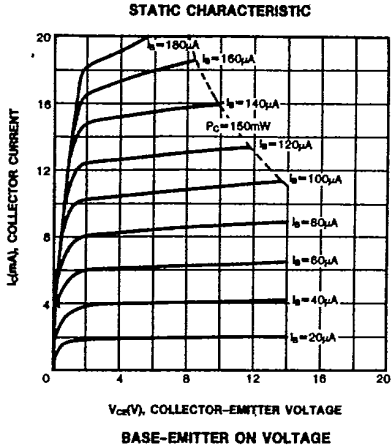
Marking



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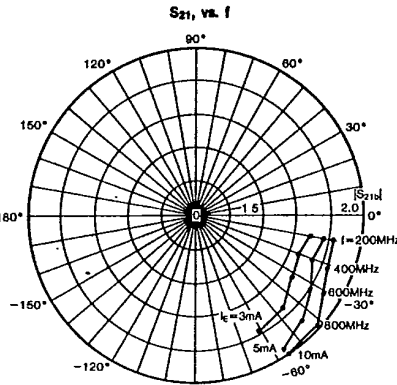
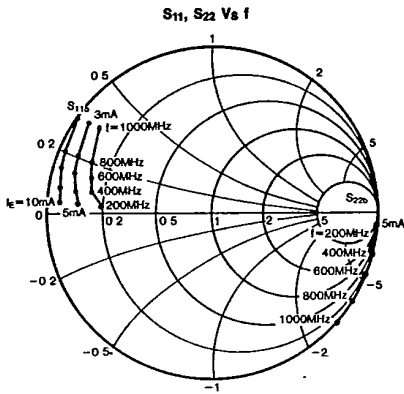
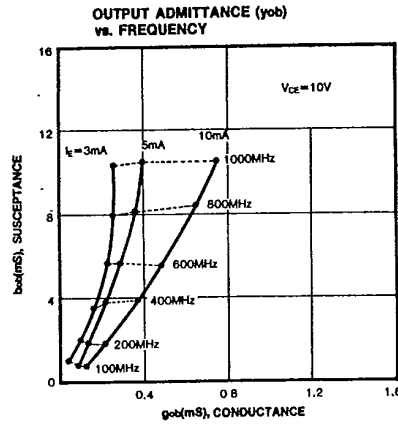
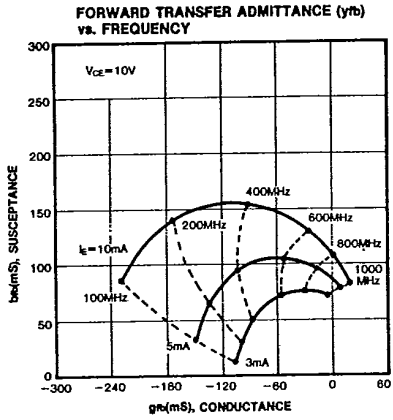
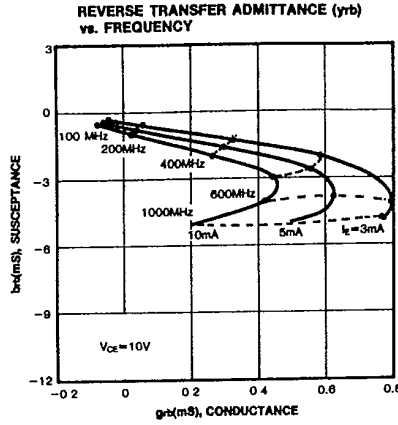
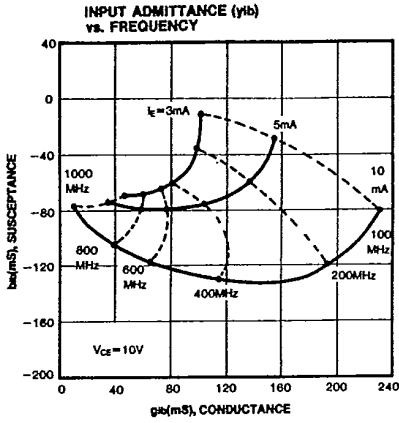


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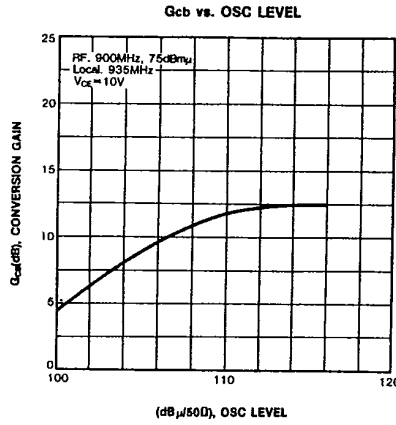
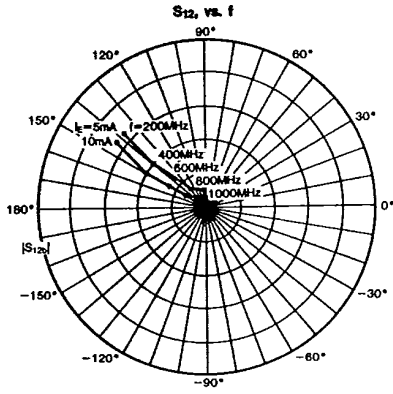
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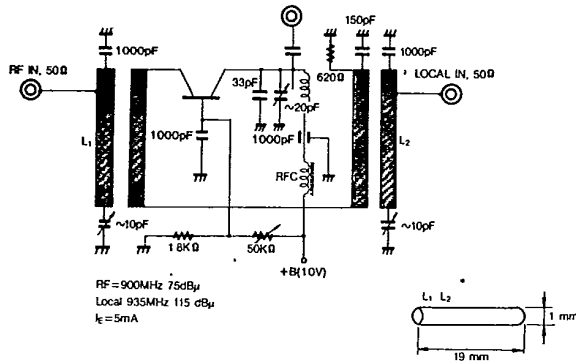
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Gcb TEST CIRCUIT



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