

Test Conditions

		<u>Min.</u>	<u>Typical</u>	<u>Max.</u>	
Collector Current, I_c	= -1.5 ma				
Collector Voltage, V_{CB}	= -12 volts				
d.	Forward Current Transfer Ratio, h_{fe}	2N1395 2N1396 2N1397 2N1023 2N1066	50 20	90 60	175 175
e.	Forward Current Transfer Ratio Cutoff Frequency, f_{ab} $I_F = 0$	2N1395 2N1396 2N1023 2N1066 2N1397	- -	30 100 120	- - Mc Mc
f.	Output Capacitance, C_{ob} Frequency of test = .1140 Mc $I_E = 0$		-	2 3	$\mu\mu f$
g.	Power Gains**				
	For collector voltage = -12 volts, emitter current = 1.5 ma, and at signal frequency of: (common-base circuit, emitter input)				
	50 Mc.	2N1396 2N1023 2N1066 2N1397	15 18 21	18	21
	30 Mc.	2N1396 2N1023 2N1066 2N1397	16 20 23	20	24
	12.5 Mc.	2N1396 2N1395	24 17	28 22	32 27
	1.5 Mc.	2N1395	40	45	50
h.	Input Resistance (AC output circuit shorted): For collector voltage = -12 volts, emitter current = 1.5 ma and at signal frequency of: (common-base circuit, emitter input)	2N1023 2N1066 2N1397	-	25	-
	50 Mc.	2N1066 2N1397	-	-	ohms
		2N1396	30	-	ohms

		<u>Min.</u>	<u>Typical</u>	<u>Max</u>
(common-emitter circuit, base input)				
30 Mc.	2N1396	-	50	- ohms
	2N1023}	-	100	- ohms
	2N1066}			
	2N1397}			
12.5 Mc.	2N1396	-	250	- ohms
	2N1395	-	150	- ohms
1.5 Mc.	2N1395	-	1350	- ohms
i. Output Resistance (AC Input circuit shorted): For collector voltage = -12 volts, emitter current = 1.5 ma, and at signal frequency of:				
(common-base circuit, emitter input)				
50 Mc.	2N1396	-	5000	- ohms
	2N1023}	-	8000	- ohms
	2N1066}			
	2N1397}			
(common-emitter Circuit, base input)				
30 Mc.	2N1396	-	5000	- ohms
	2N1023}	-	8000	- ohms
	2N1066}			
	2N1397}			
12.5 Mc.	2N1396	-	16000	- ohms
	2N1395	-	4000	- ohms
1.5 Mc.	2N1395	-	7000	- ohms

**Measured in a single-tuned unilateralized circuit matched to the generator and lead impedance for maximum transfer of power (transformer insertion losses not included).

D. Characteristic Curves

2. Static output characteristics:
 V_{CE} vs. I_C I_B constant (see Figs. 2 and 3)
4. Normalized small signal parameters vs. frequency
(See Figs. 4, 5, and 6)
6. Max. Transistor Dissipation vs. temp. (See Fig.1)

IV. Thermal Characteristics

	<u>Min.</u>	<u>Typical</u>	<u>Max.</u>
Thermal Resistance (R_T):			
Between junction and case.	-	-	0.31 $^{\circ}\text{C}/\text{mw}$
Between junction and free air.	-	-	0.62 $^{\circ}\text{C}/\text{mw}$

