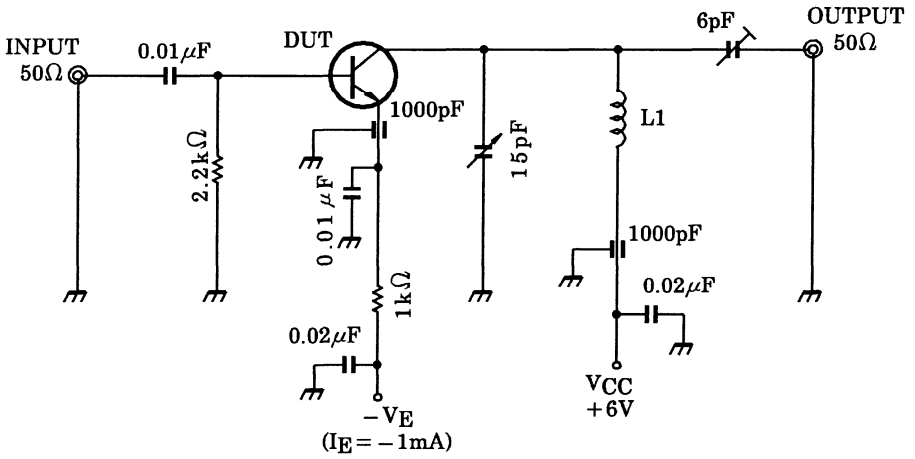


L1: 0.8 mmϕ silver plated copper wire, 4T, 10ID, 8 length

Figure1 NF, G_{pe} Test Circuit

y Parameter (typ.)

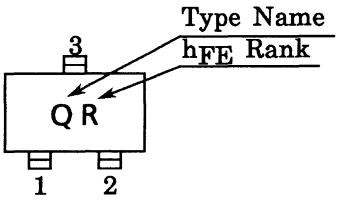
(1) Common emitter (V_{CE} = 6 V, I_E = −1 mA, f = 100 MHz, Ta = 25°C)

Characteristics	Symbol	Typ.	Unit
Input conductance	g_{ie}	2.9	mS
Input capacitance	C_{ie}	10.2	pF
Reverse transfer admittance	$\|y_{re}\|$	0.33	mS
Phase angle of reverse transfer admittance	θ_{re}	−90	°
Forward transfer admittance	$\|y_{fe}\|$	40	mS
Phase angle of forward transfer admittance	θ_{fe}	−20	°
Output conductance	g_{oe}	45	μS
Output capacitance	C_{oe}	1.1	pF

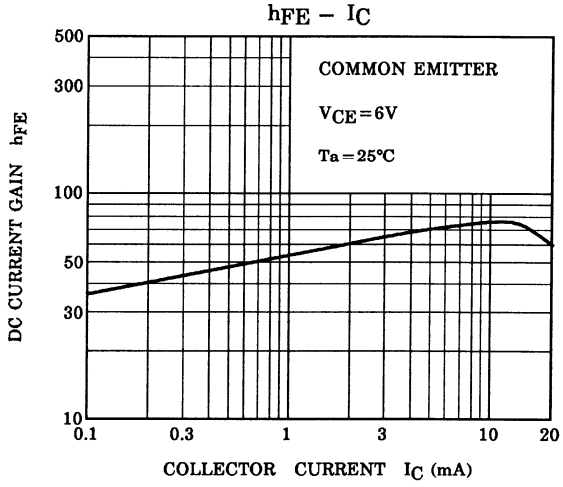
(2) Common base (V_{CE} = 6 V, I_E = −1 mA, f = 100 MHz, Ta = 25°C)

Characteristics	Symbol	Typ.	Unit
Input conductance	g_{ib}	34	mS
Input capacitance	C_{ib}	−10	pF
Reverse transfer admittance	$\|y_{rb}\|$	0.27	mS
Phase angle of reverse transfer admittance	θ_{rb}	−105	°
Forward transfer admittance	$\|y_{fb}\|$	34	mS
Phase angle of forward transfer admittance	θ_{fb}	165	°
Output conductance	g_{ob}	45	μS
Output capacitance	C_{ob}	1.1	pF

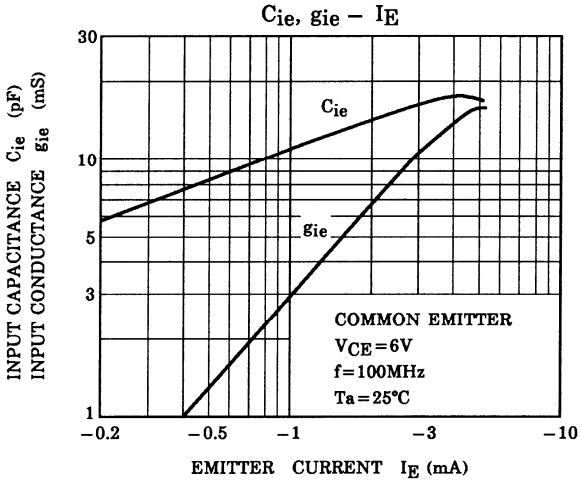
Marking



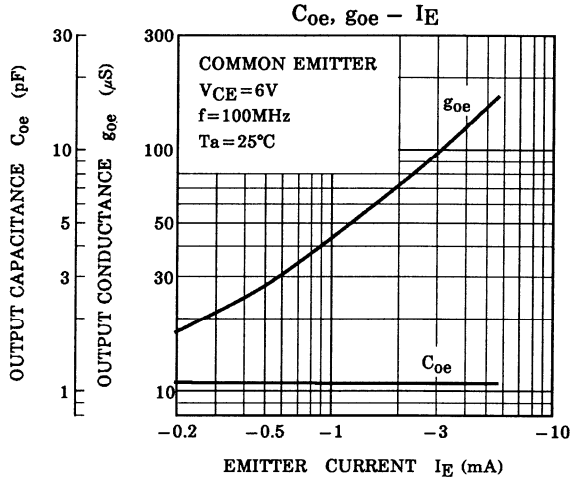
h_{FE} – I_C



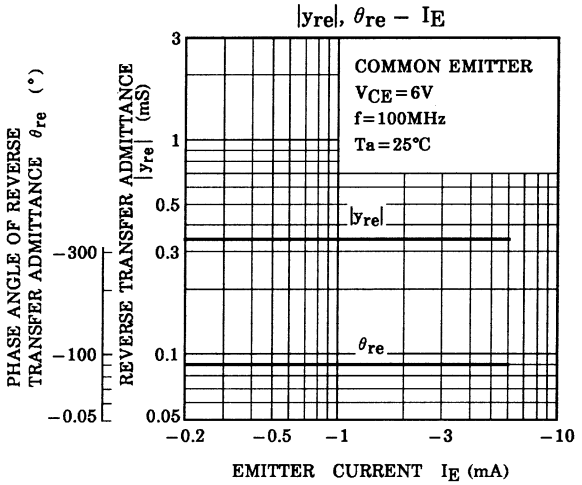
C_{ie}, g_{ie} – I_E



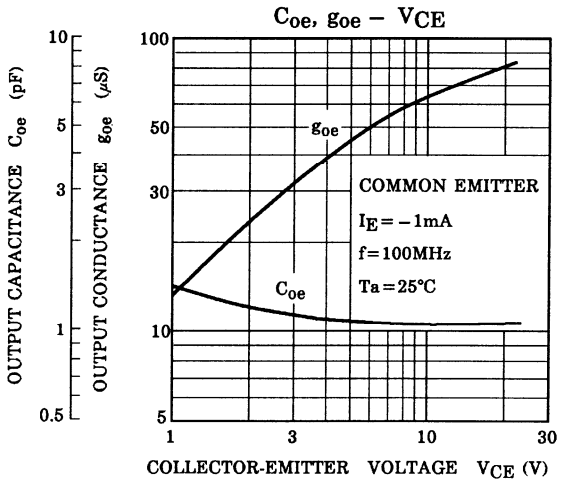
C_{oe}, g_{oe} – I_E



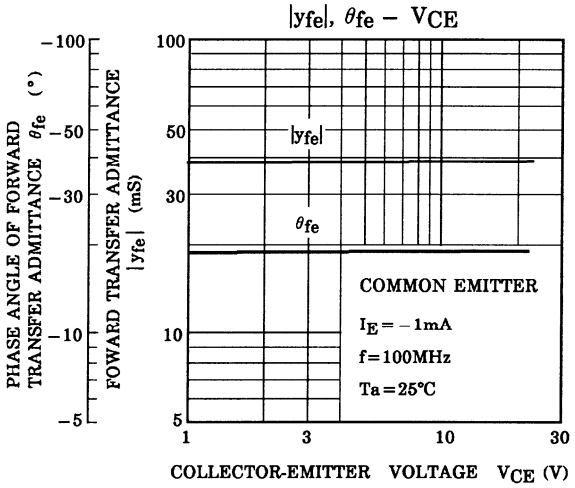
$|y_{re}|$, θ_{re} – I_E

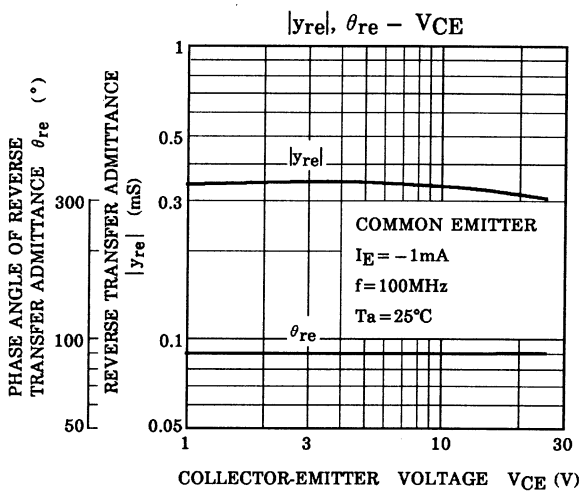


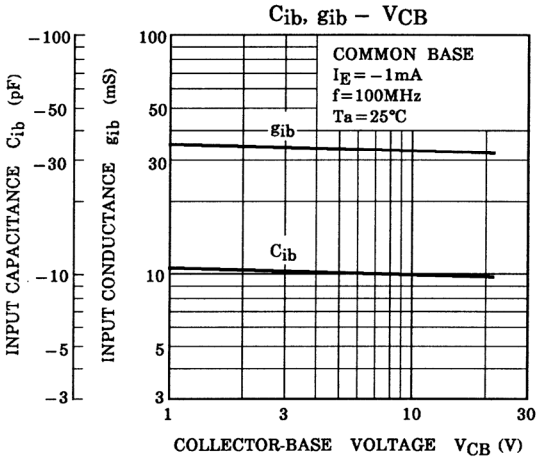
C_{oe}, g_{oe} – V_{CE}

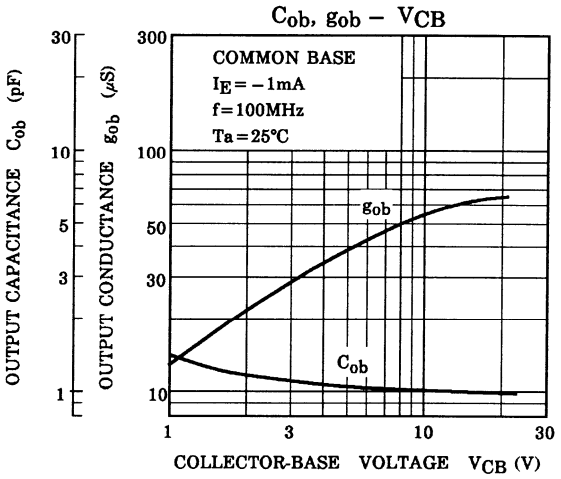


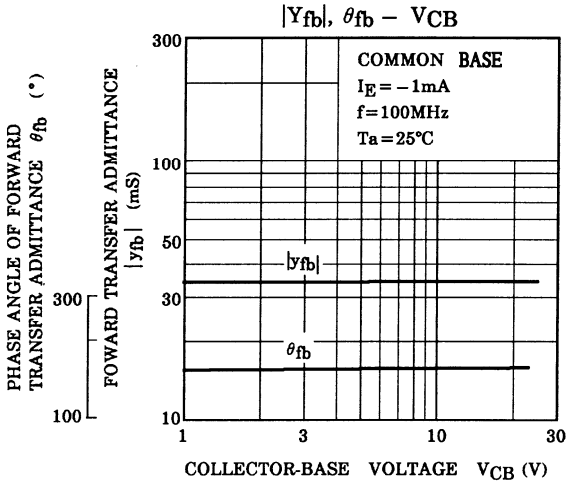
$|y_{fe}|$, θ_{fe} – V_{CE}

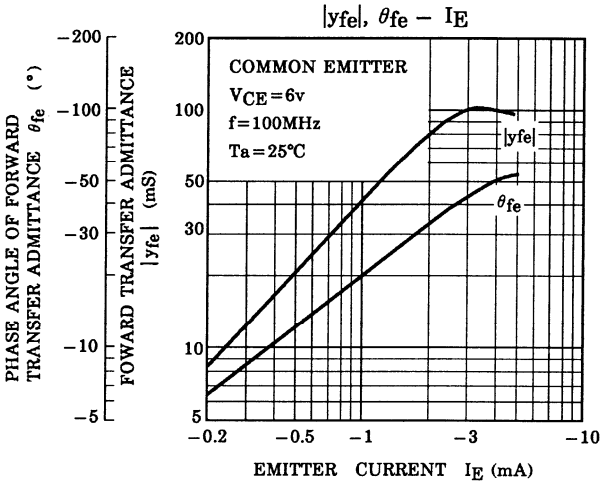


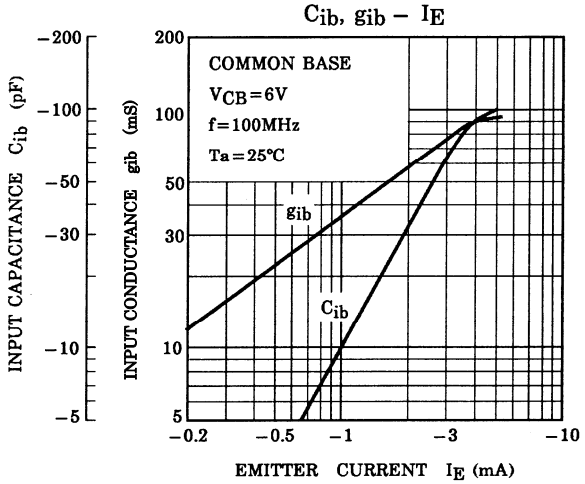




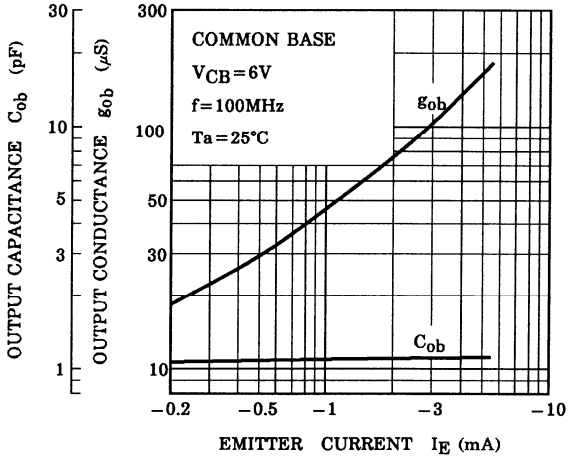




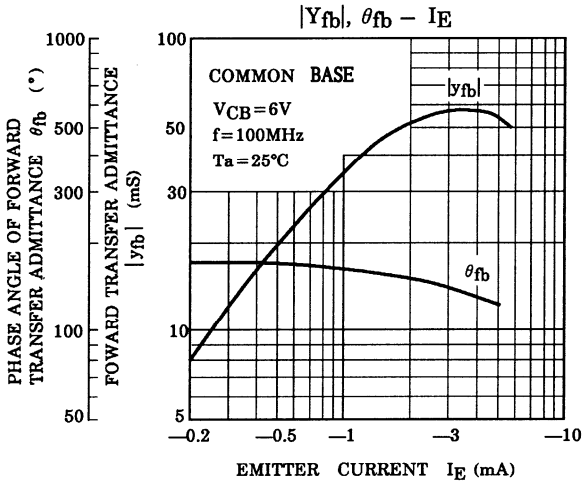




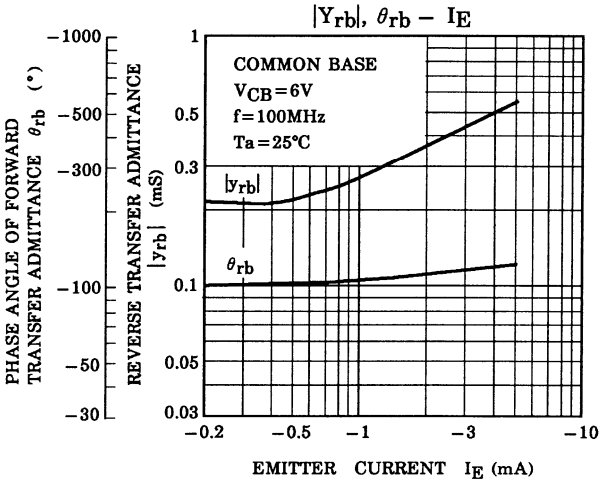
C_{ob}, g_{ob} – I_E



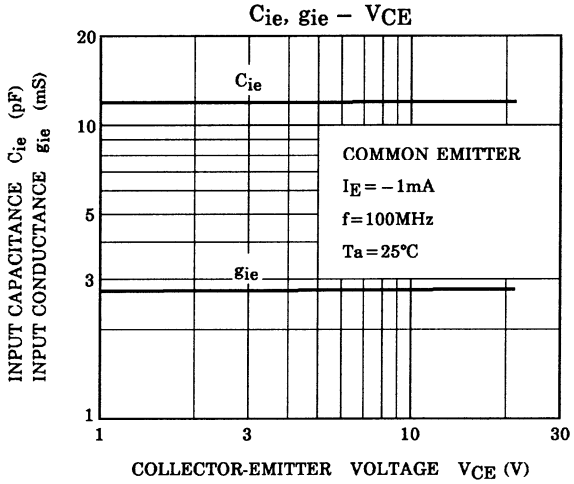
$|Y_{fb}|$, θ_{fb} – I_E



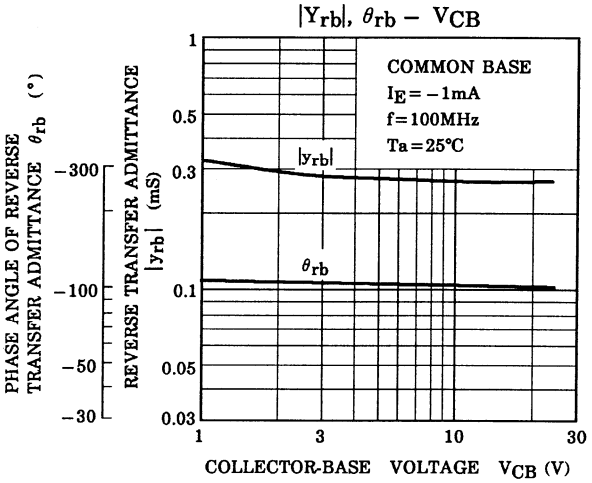
$|Y_{rb}|$, θ_{rb} – I_E



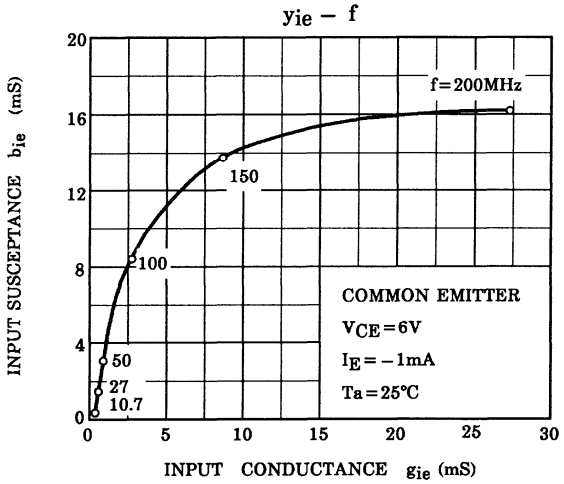
C_{ie}, g_{ie} – V_{CE}



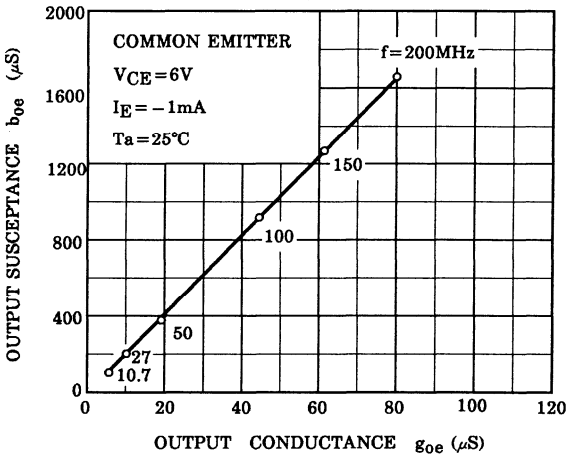
$|Y_{rb}|$, θ_{rb} – V_{CB}



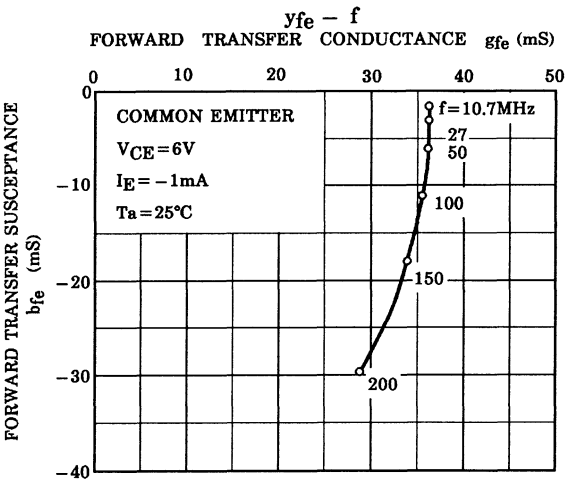
y_{ie} – f



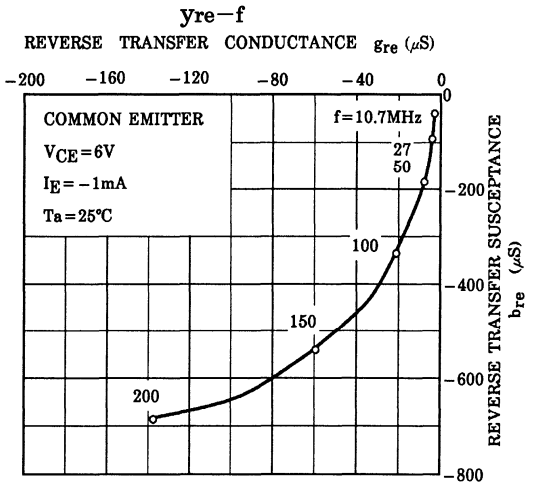
y_{oe} – f



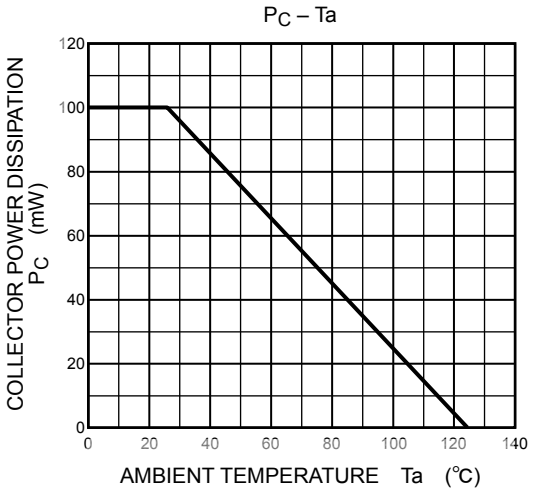
y_{fe} – f



y_{re}–f



P_C – Ta



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