

HIGH FREQUENCY APPLICATION.
HF, VHF BAND AMPLIFIER APPLICATION.

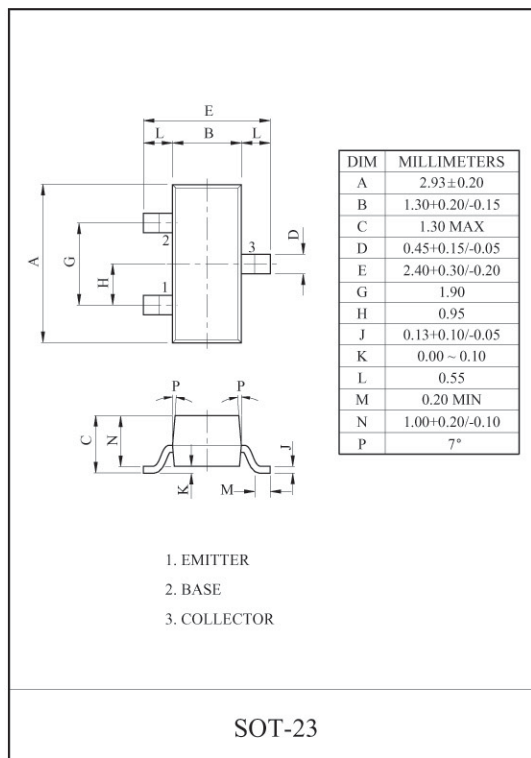
FEATURE

- High Power Gain : $G_{pe}=29\text{dB(Typ.)}$ at $f=10.7\text{MHz}$.

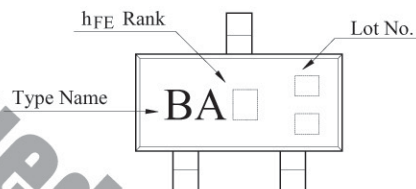
MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	35	V
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	50	mA
Emitter Current	I_E	-50	mA
Collector Power Dissipation	P_C^*	350	mW
Junction Temperature	T	150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C

* P_C : Package Mounted On 99.5% Alumina ($10 \times 8 \times 0.6\text{mm}$)



Marking



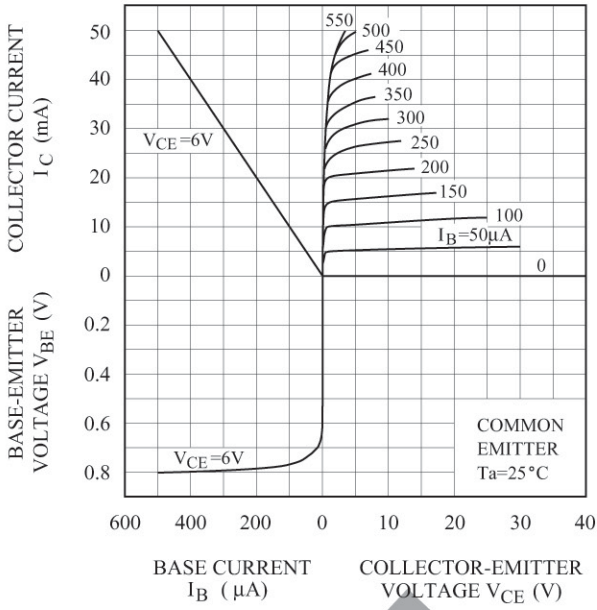
ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=35\text{V}, I_E=0$	-	-	0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=4\text{V}, I_C=0$	-	-	0.1	μA
DC Current Gain	h_{FE} (Note)	$V_{CE}=5\text{V}, I_C=1\text{mA}$	54	-	198	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10\text{mA}, I_B=1\text{mA}$	-	-	0.4	V
Transition Frequency	f_T	$V_{CE}=10\text{V}, I_C=1\text{mA}, f=100\text{MHz}$	100	-	400	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$	-	2.0	-	pF

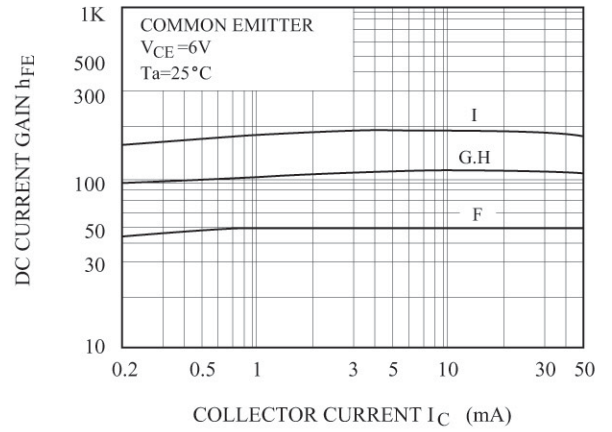
Note : h_{FE} Classification F:54 ~ 80, G:72 ~ 108, H:97 ~ 146, I:132 ~ 198

KTC9011S

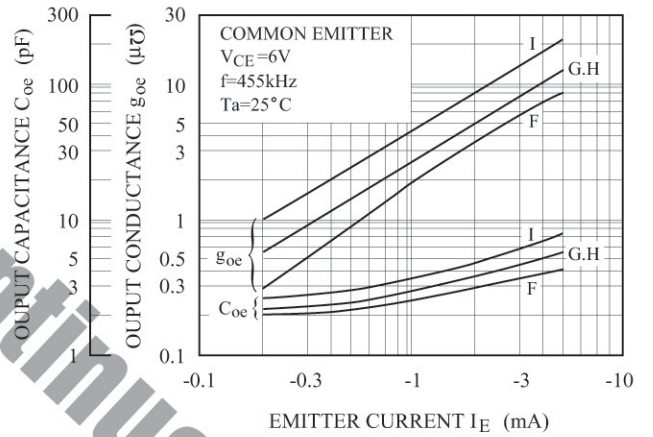
STATIC CHARACTERISTICS



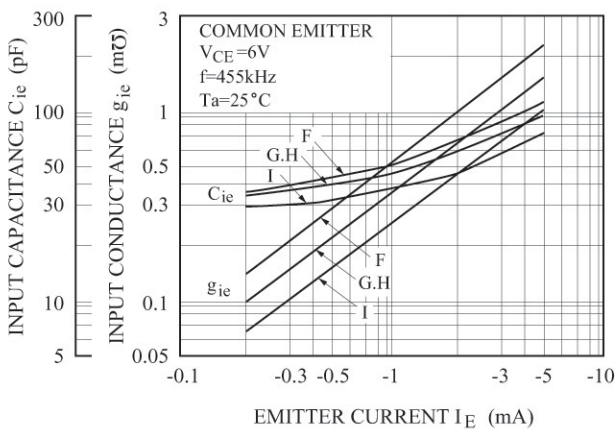
$h_{FE} - I_C$



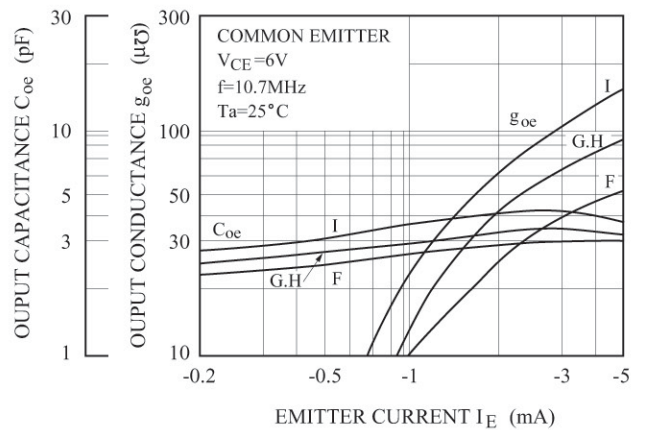
$C_{oe}, g_{oe} - I_E$



$C_{ie}, g_{ie} - I_E$

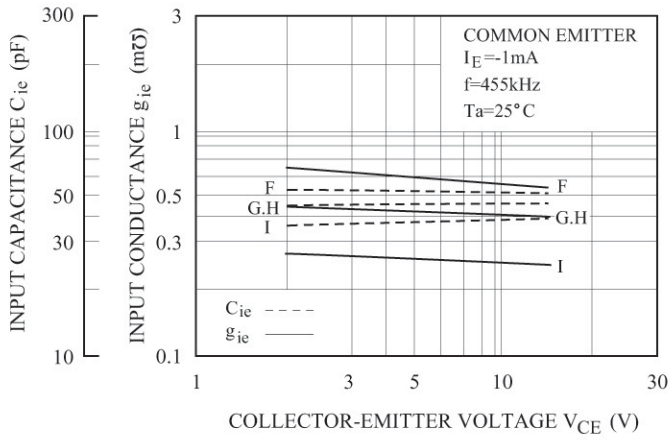


$C_{oe}, g_{oe} - I_E$

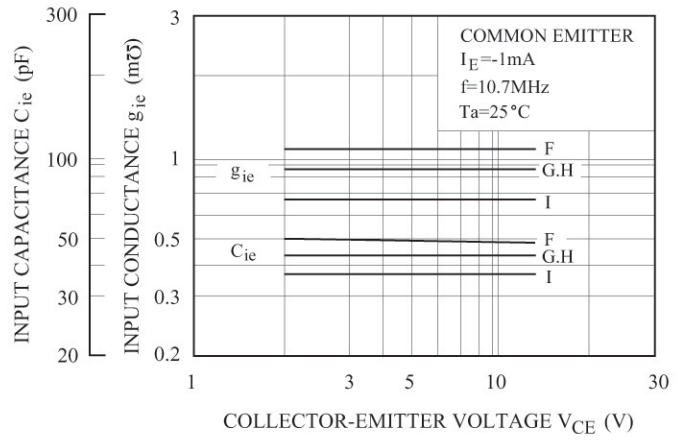


KTC9011S

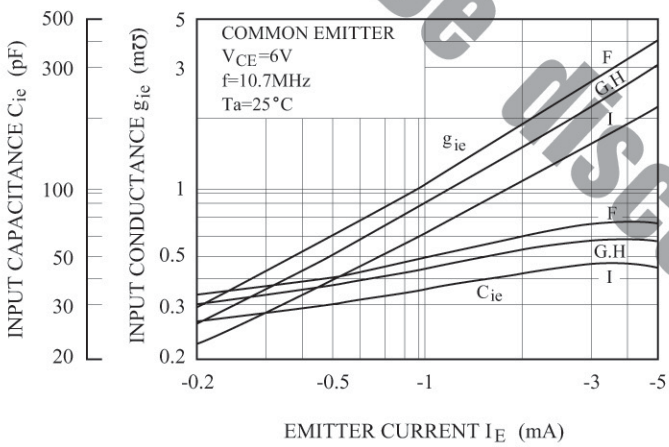
$C_{ie}, g_{ie} - V_{CE}$



$C_{ie}, g_{ie} - V_{CE}$



$C_{ie}, g_{ie} - I_E$



$P_c - T_a$

