

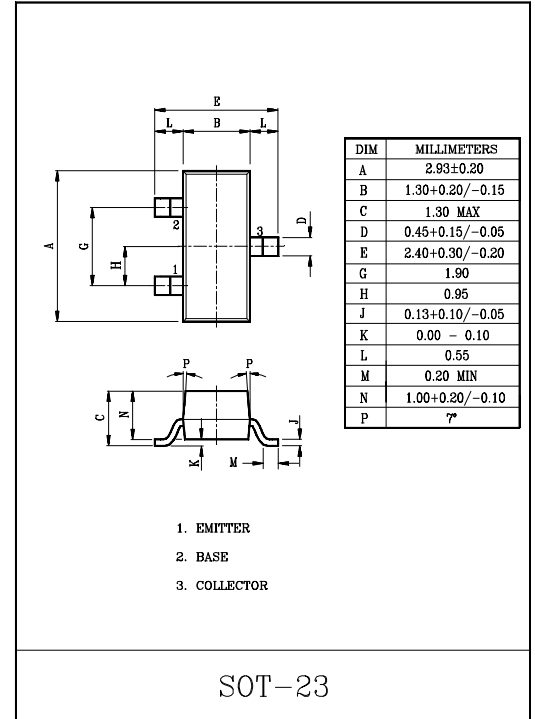
HIGH FREQUENCY APPLICATION.  
VHF BAND AMPLIFIER APPLICATION.

### FEATURES

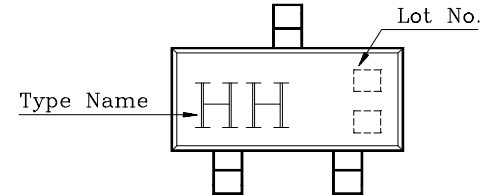
- Good Linearity of  $f_T$ .

### MAXIMUM RATINGS ( $T_a=25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CB0}$	30	V
Collector-Emitter Voltage	$V_{CEO}$	25	V
Emitter-Base Voltage	$V_{EBO}$	4	V
Collector Current	$I_C$	50	mA
Base Current	$I_B$	25	mA
Collector Power Dissipation	$P_C$	150	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55~150	$^\circ\text{C}$



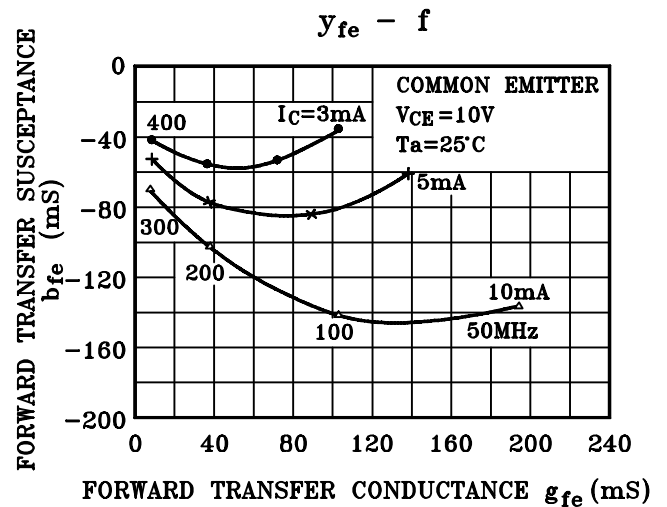
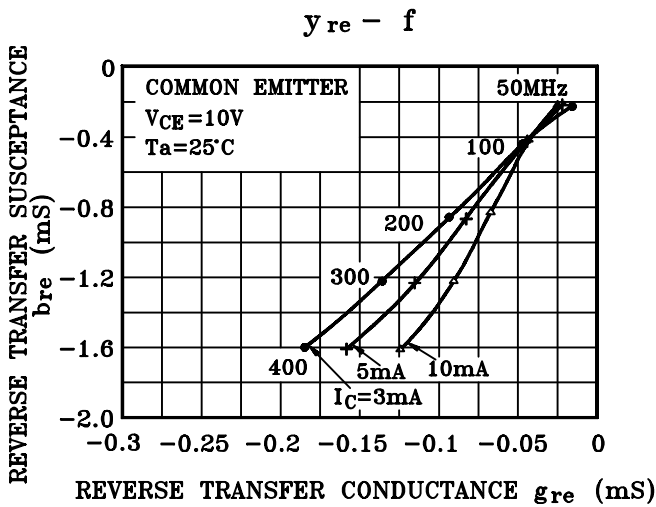
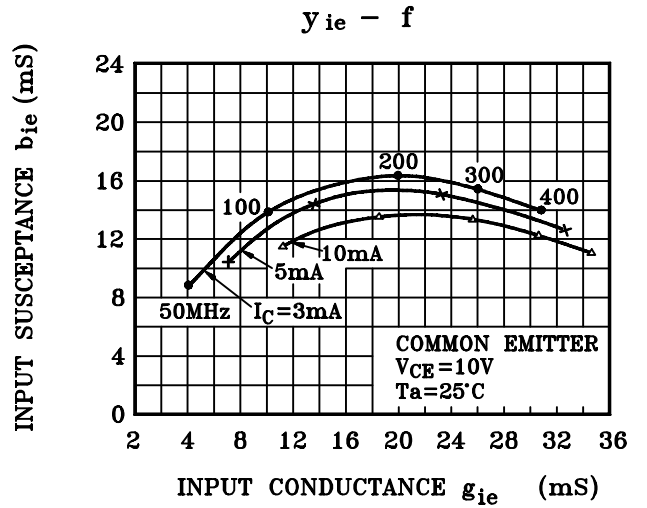
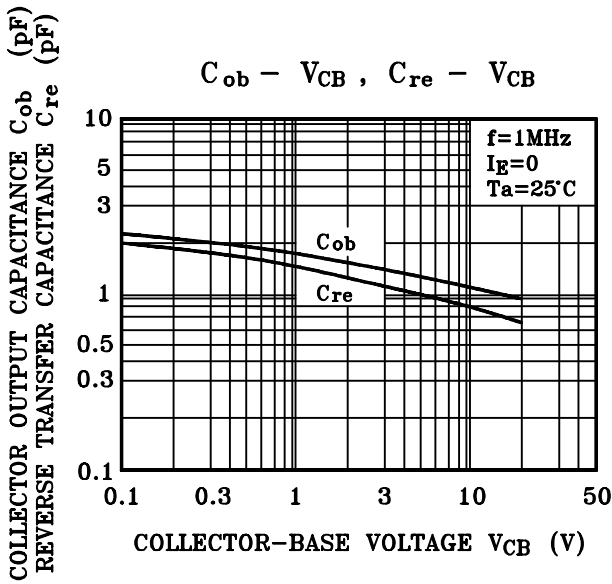
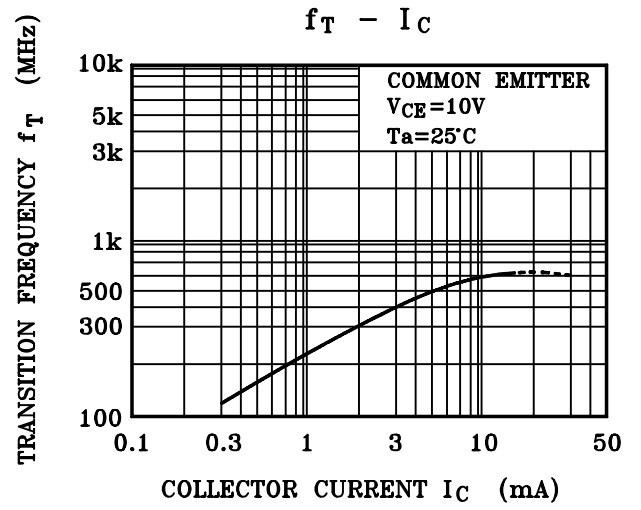
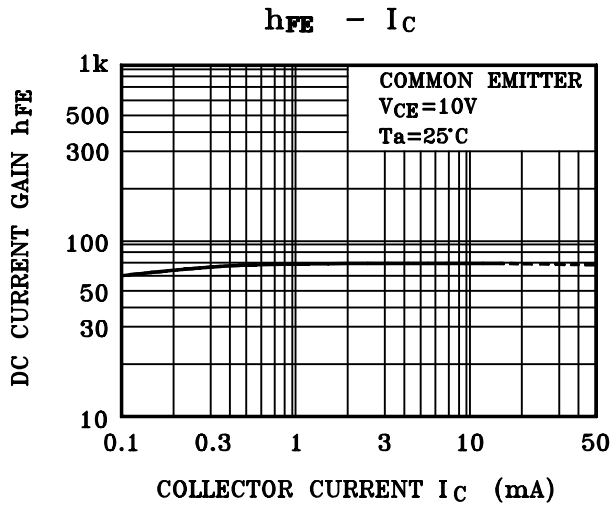
### Marking



### ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ )

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		$I_{CB0}$	$V_{CB}=30\text{V}, I_E=0$	-	-	0.1	$\mu\text{A}$
Emitter Cut-off Current		$I_{EBO}$	$V_{EB}=3\text{V}, I_C=0$	-	-	0.1	$\mu\text{A}$
Collector-Emitter Breakdown Voltage		$V_{(BR)CEO}$	$I_C=10\text{mA}$	25	-	-	V
DC Current Gain		$h_{FE}$	$V_{CE}=10\text{V}, I_C=10\text{mA}$	20	70	200	
Saturation Voltage	Collector-Emitter	$V_{CE(sat)}$	$I_C=15\text{mA}, I_B=1.5\text{mA}$	-	-	0.2	V
	Base-Emitter	$V_{BE(sat)}$		-	-	1.5	
Collector Output Capacitance		$C_{ob}$	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$	-	1.1	1.6	pF
Collector-Base Time Constant		$C_c \cdot r_{bb'}$	$V_{CB}=10\text{V}, I_E=1\text{mA}, f=30\text{MHz}$	-	-	25	pS
Transition Frequency		$f_T$	$V_{CE}=10\text{V}, I_C=10\text{mA}$	250	600	-	MHz

# KTC3881S



# KTC3881S

