

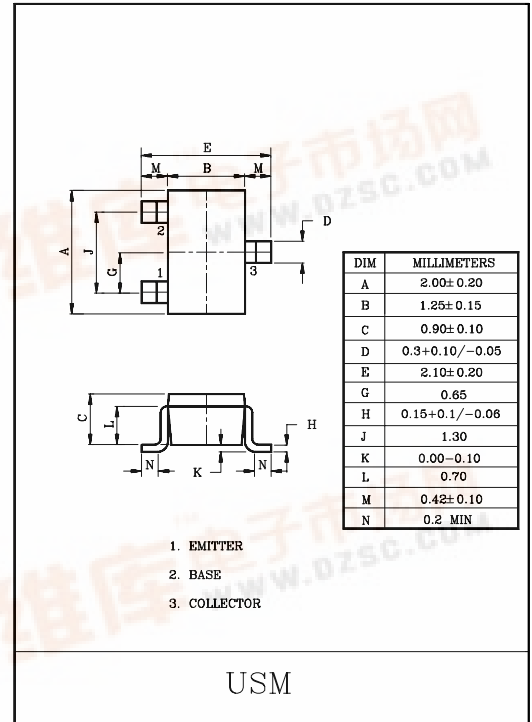
HIGH FREQUENCY APPLICATION,
VHF BAND AMPLIFIER APPLICATION.

FEATURES

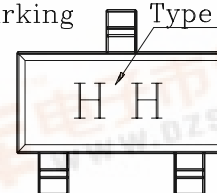
- Good Linerarity of f_T .

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	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	100	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C



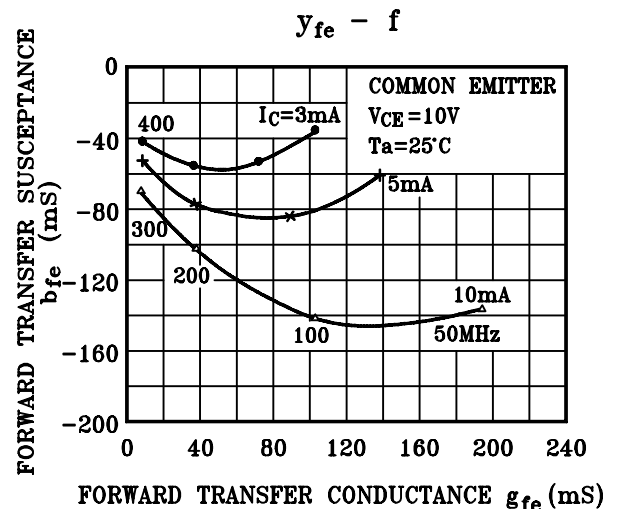
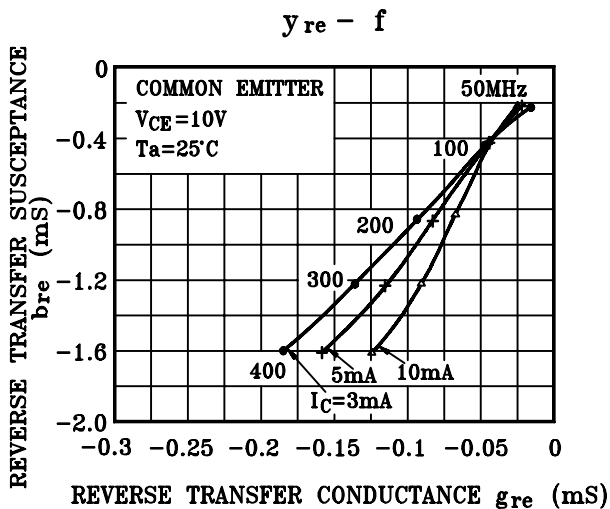
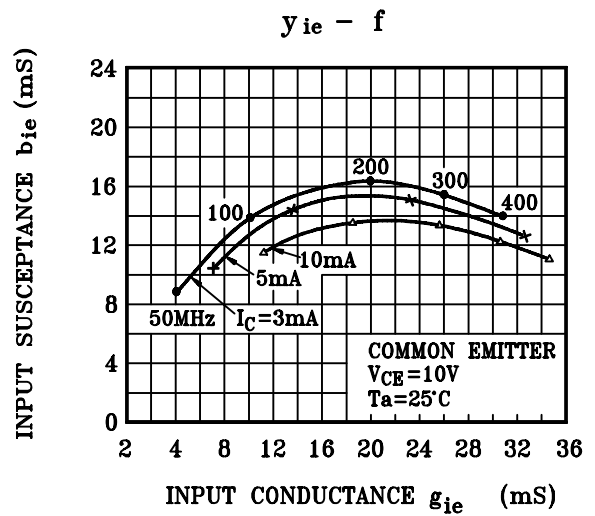
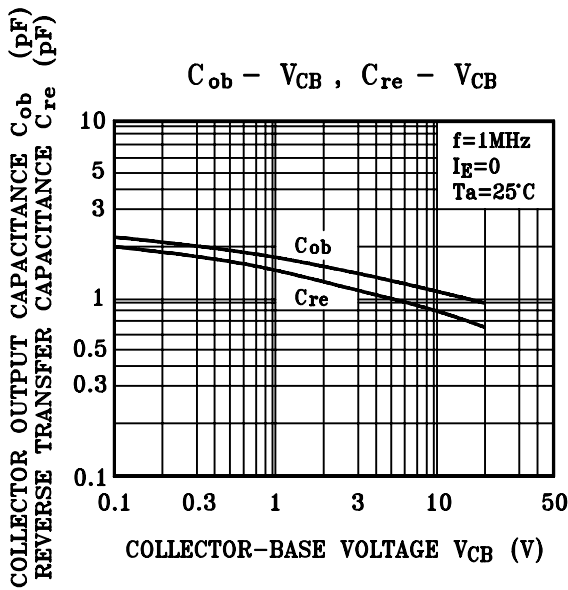
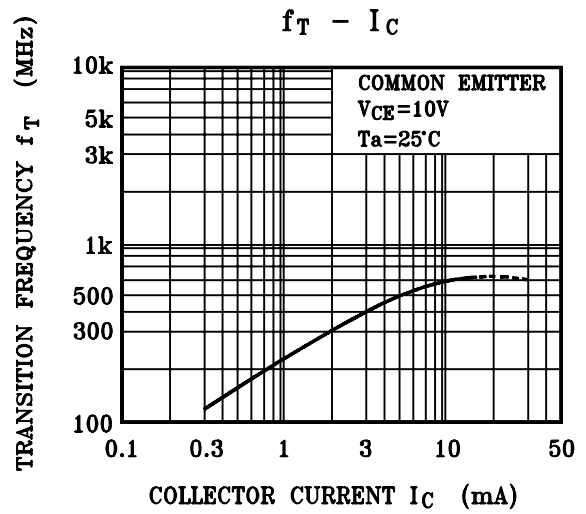
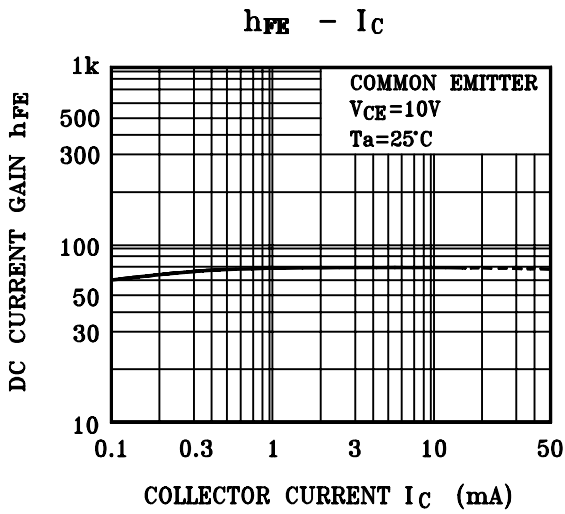
Marking Type Name



ELECTRICAL CHARACTERISTICS (Ta=25°C)

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

KTC4081



KTC4081

