

**SEMICONDUCTOR
TECHNICAL DATA**

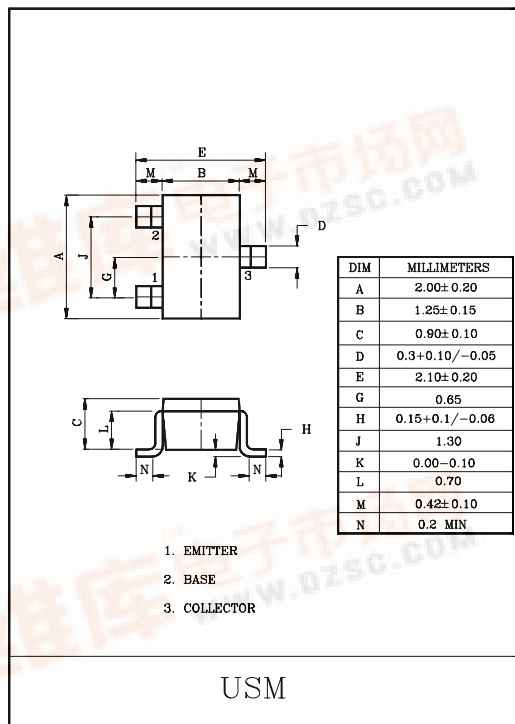
KTC4082

EPITAXIAL PLANAR NPN TRANSISTOR

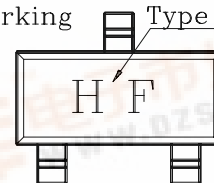
HIGH FREQUENCY APPLICATION.
TV TUNER, VHF OSCILLATOR APPLICATION.

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CBO}	30	V
Collector-Emitter Voltage	V _{CEO}	15	V
Emitter-Base Voltage	V _{EBO}	3	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



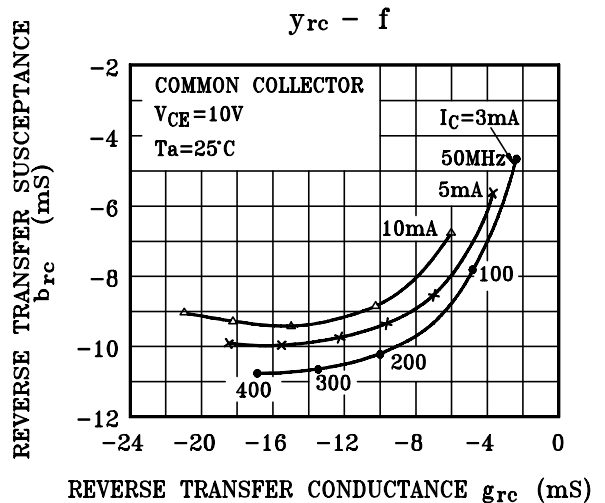
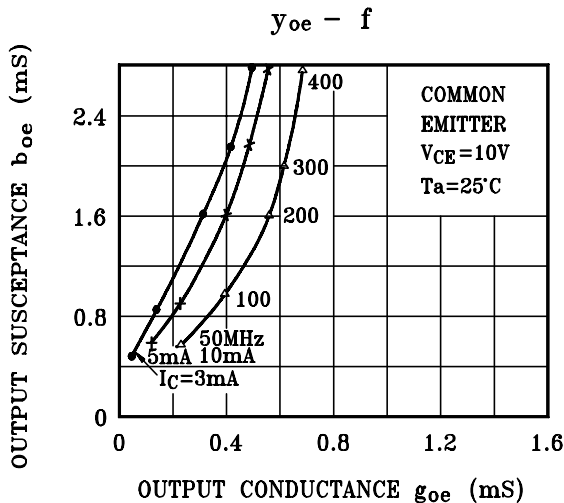
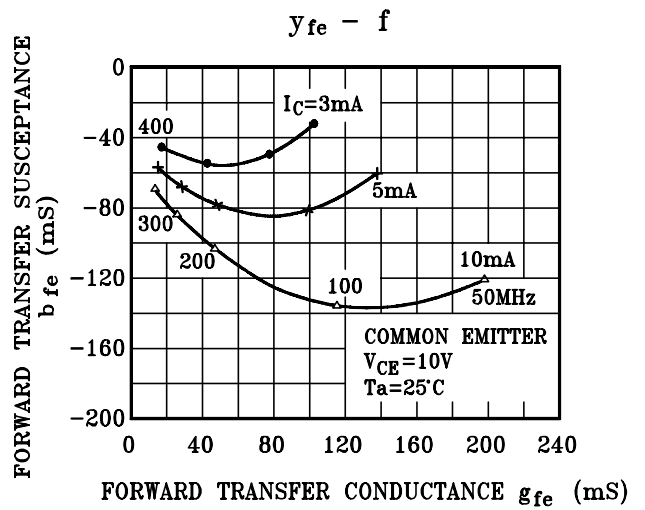
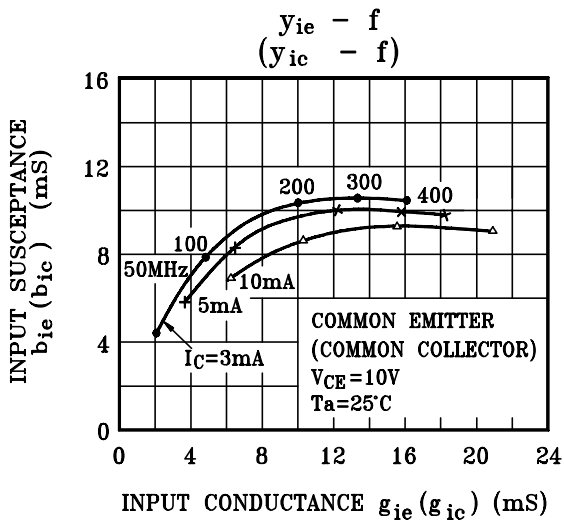
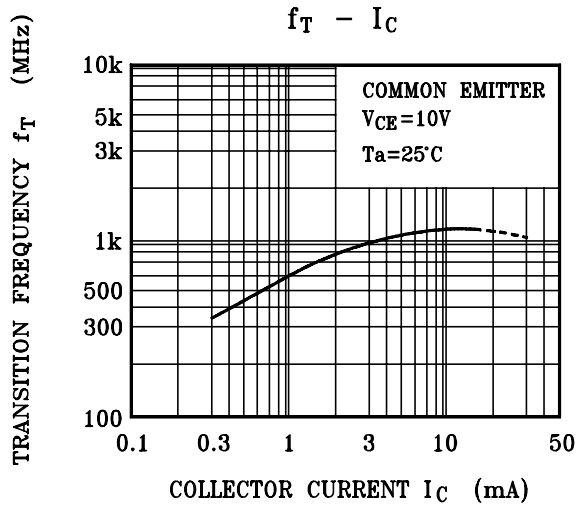
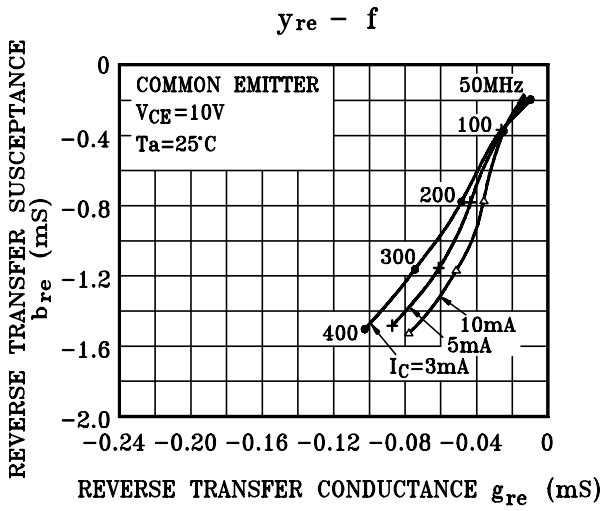
Marking Type Name



ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} =15V, I _E =0	-	-	0.1	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} =3V, I _C =0	-	-	1.0	nA
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	15	-	-	V
DC Current Gain	h _{FE}	V _{CE} =3V, I _C =8mA	40	100	200	
Transition Frequency	f _T	V _{CE} =10V, I _C =8mA	650	1100	-	MHz
Collector Output Capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz	-	0.9	1.3	pF
Collector-Base Time Constant	C _c •τ _{bb} '	V _{CB} =10V, I _C =8mA, f=30MHz	-	7.0	12	pS

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