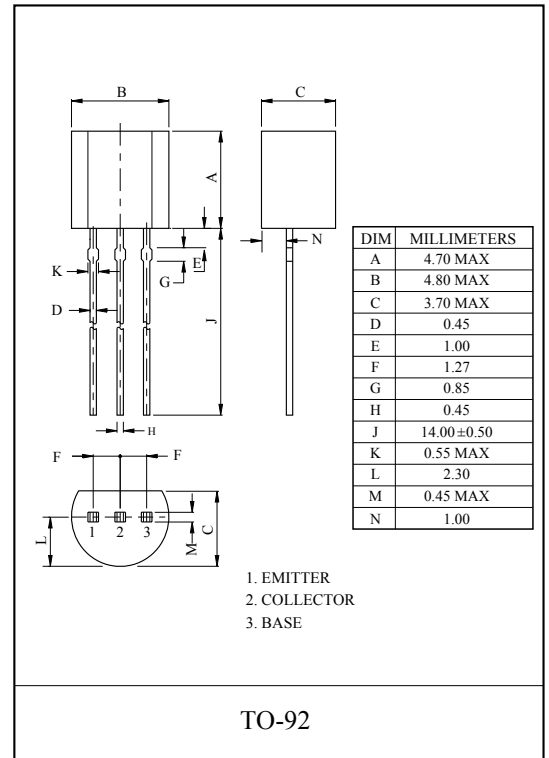


HIGH FREQUENCY APPLICATION.  
TV UHF OSCILLATOR APPLICATION.  
TV VHF MIXER APPLICATION.

#### MAXIMUM RATING (Ta=25°C)

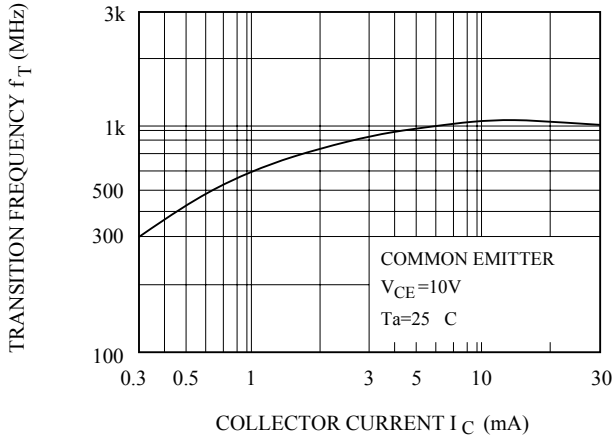
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	35	V
Collector-Emitter Voltage	$V_{CEO}$	15	V
Emitter-Base Voltage	$V_{EBO}$	3	V
Collector Current	$I_C$	50	mA
Emitter Current	$I_E$	-50	mA
Collector Power Dissipation	$P_C$	625	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55 ~ 150	°C



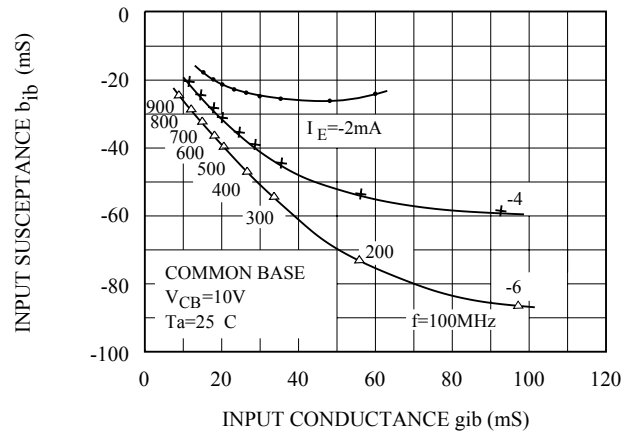
#### ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=15V, I_E=0$	-	-	0.1	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=3V, I_C=0$	-	-	1.0	$\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	15	-	-	V
DC Current Gain	$h_{FE}$	$V_{CE}=3V, I_C=8mA$	20	-	-	
Transition Frequency	$f_T$	$V_{CE}=10V, I_C=8mA$	650	1100	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	1.2	1.5	pF
Collector-Base Time Constant	$C_C \cdot r_{bb}'$	$V_{CB}=10V, I_C=8mA, f=30MHz$	-	-	12	ps

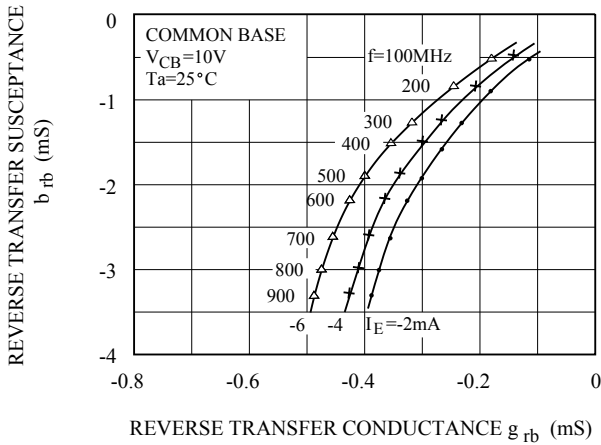
$f_T - I_C$



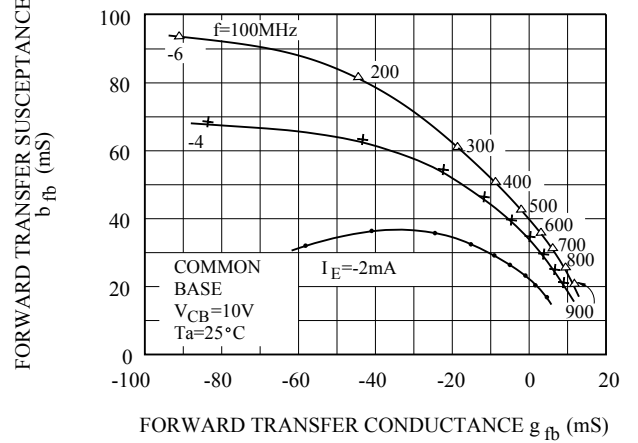
$y_{ib} - f$



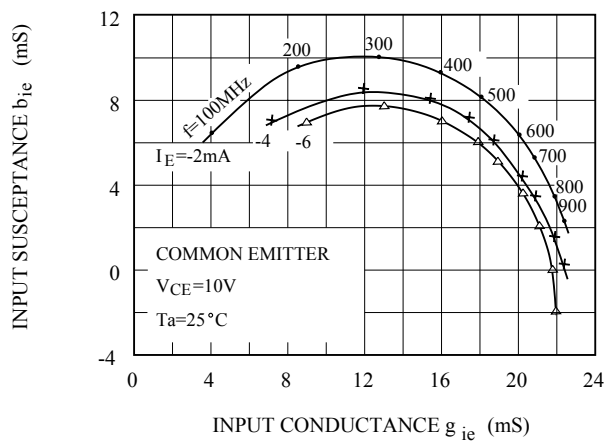
$y_{rb} - f$



$y_{fb} - f$



$y_{ie} - f$



$y_{re} - f$

