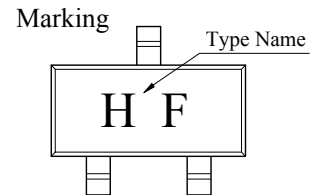
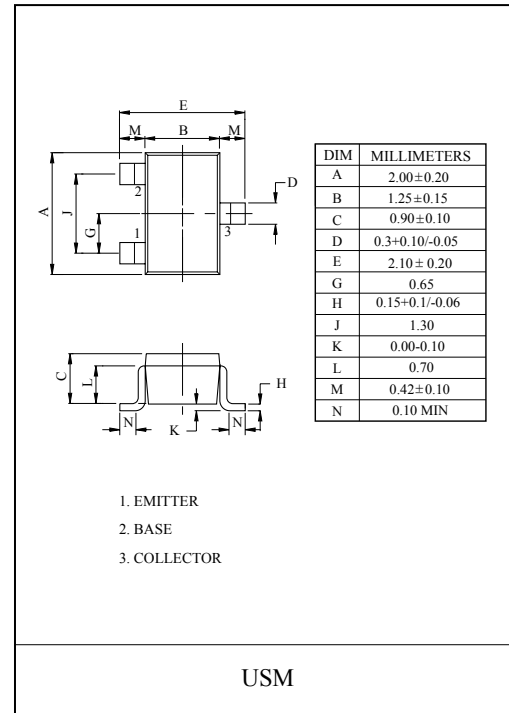


HIGH FREQUENCY APPLICATION.
TV TUNER, VHF OSCILLATOR APPLICATION.

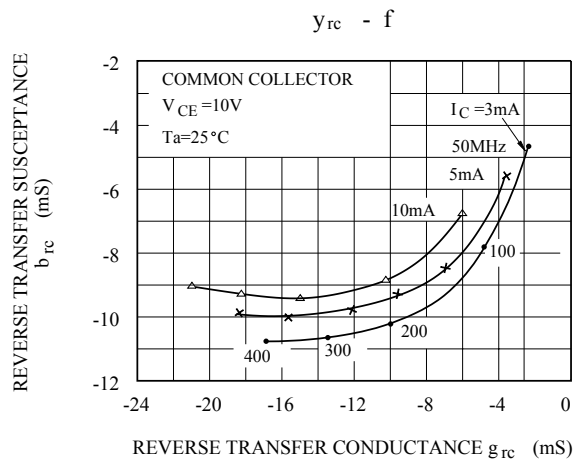
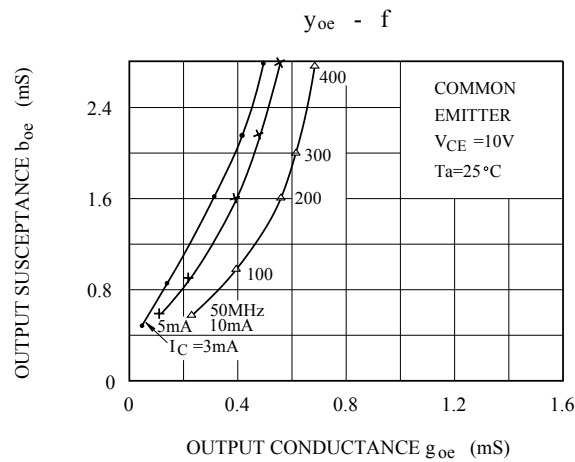
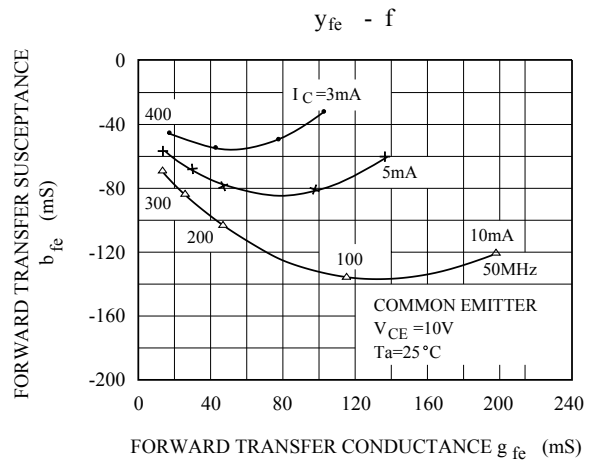
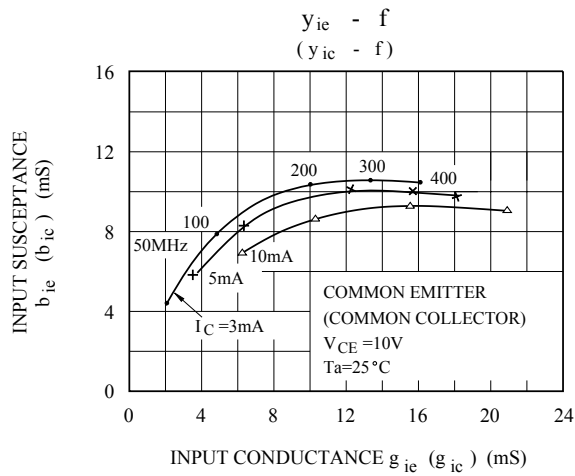
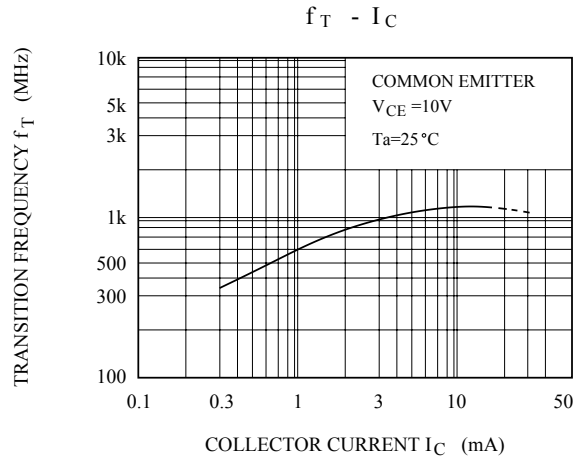
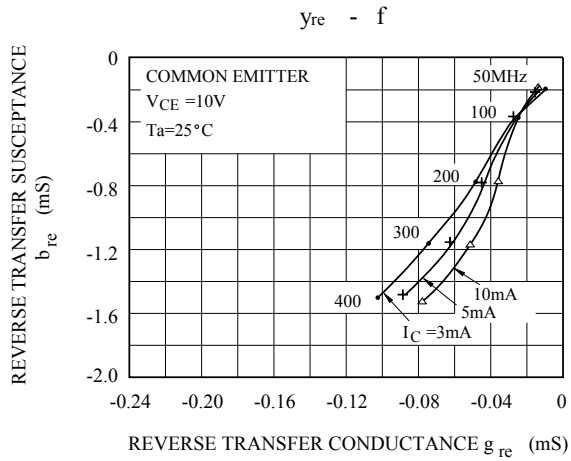
MAXIMUM RATING (Ta=25°C)

| 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 |



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 | μA |
| 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 | $C_c \cdot \tau_{bb}'$ | $V_{CB}=10V, I_E=-8mA, f=30MHz$ | - | 7.0 | 12 | pS |



KTC4082

