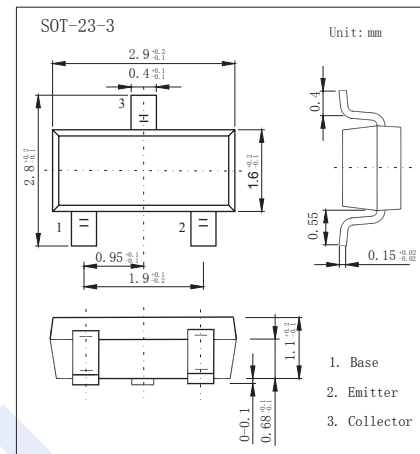


NPN Transistors

KTC3882

■ Features

- Collector Current Capability $I_C=50\text{mA}$
- Collector Emitter Voltage $V_{CEO}=15\text{V}$
- High frequency application .TV Tuner,VHF
Oscillator application

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	30	V
Collector - Emitter Voltage	V_{CEO}	15	
Emitter - Base Voltage	V_{EBO}	3	
Collector Current - Continuous	I_C	50	mA
Base Current	I_B	25	
Collector Power Dissipation	P_C	150	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to 150	

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	$I_C = 100\ \mu\text{A}, I_E = 0$	30			V
Collector- emitter breakdown voltage	V_{CEO}	$I_C = 1\ \text{mA}, I_B = 0$	15			
Emitter - base breakdown voltage	V_{EBO}	$I_E = 100\ \mu\text{A}, I_C = 0$	3			
Collector-base cut-off current	I_{CBO}	$V_{CB} = 15\ \text{V}, I_E = 0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = 3\ \text{V}, I_C = 0$			0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 50\ \text{mA}, I_B = 5\ \text{mA}$			0.5	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = 50\ \text{mA}, I_B = 5\ \text{mA}$			1.2	
DC current gain	h_{FE}	$V_{CE} = 3\ \text{V}, I_C = 8\ \text{mA}$	40		200	
Collector output capacitance	C_{ob}	$V_{CB} = 10\ \text{V}, I_E = 0, f = 1\ \text{MHz}$			1.3	pF
Collector-base time constant	$C_c f_{bb'}$	$V_{CB} = 10\ \text{V}, I_C = 8\ \text{mA}, f = 30\ \text{MHz}$			12	pS
Transition frequency	f_T	$V_{CE} = 10\ \text{V}, I_C = 8\ \text{mA}$	650	1100		MHz

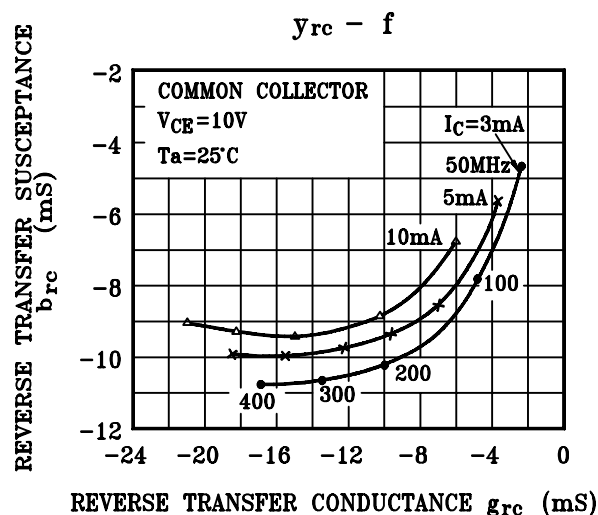
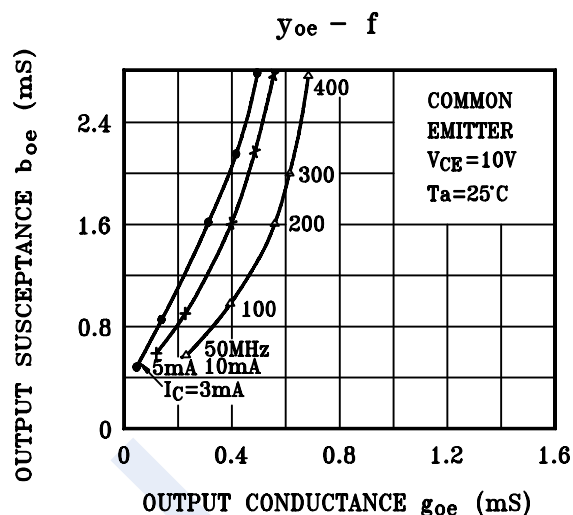
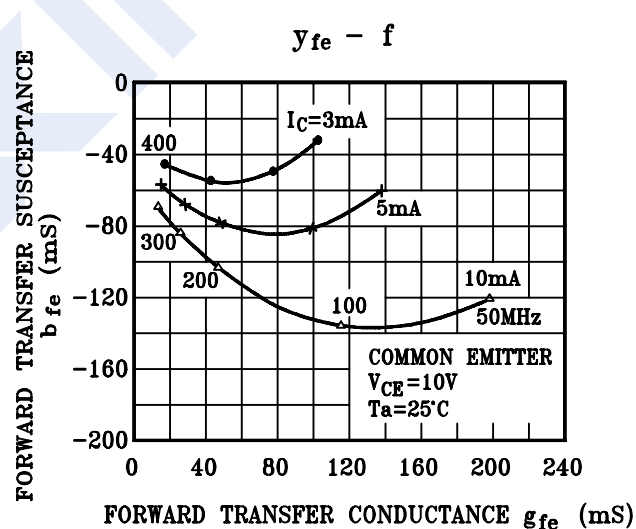
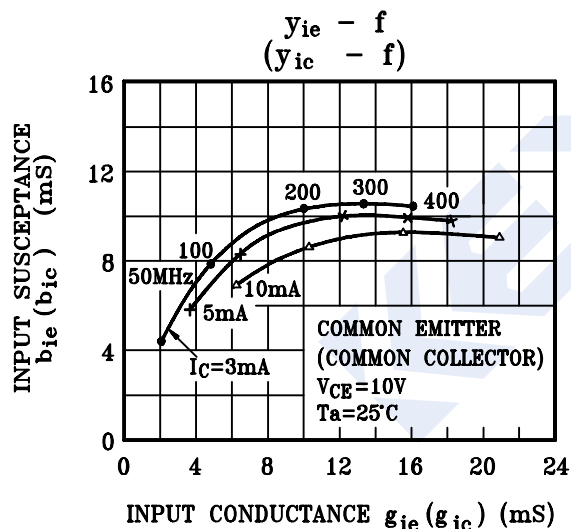
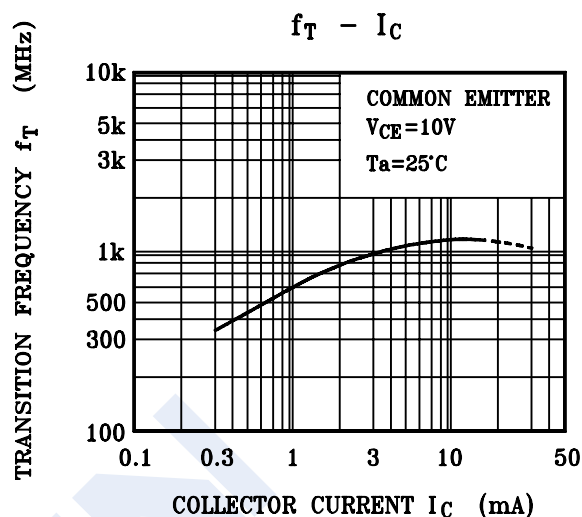
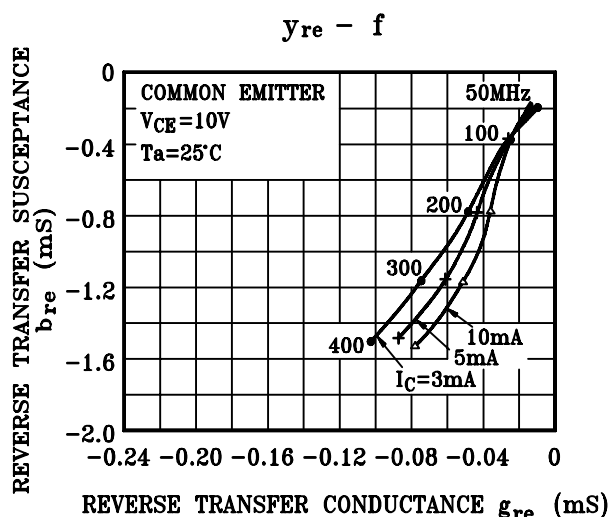
■ Marking

Marking	HF
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■ Typical Characteristics



NPN Transistors

KTC3882

■ Typical Characteristics

