



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.
TEL: 852-2790 0314 FAX: 852-2790 0206

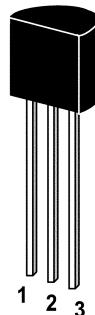
ST 2SC1907

NPN Silicon Epitaxial Planar Transistor

for UHF TV Tuner and Local Oscillator.

The transistor is subdivided into one group,
according to its DC current gain.

On special request, these transistors can be
manufactured in different pin configurations.



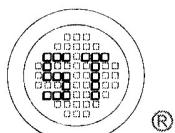
1. Emitter 2. Collector 3. Base

TO-92 Plastic Package

Weight approx. 0.19g

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

	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	30	V
Collector Emitter Voltage	V_{CEO}	19	V
Emitter Base Voltage	V_{EBO}	2	V
Collector Current	I_C	50	mA
Emitter Current	$-I_E$	50	mA
Power Dissipation	P_{tot}	300	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_s	-55 to +150	$^\circ\text{C}$



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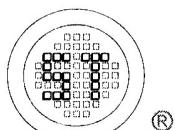
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Characteristics at $T_{amb}=25^{\circ}C$

	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE}=10V$, $I_C=10mA$ Current Gain Group	h_{FE}	40	-	-	-
Collector Base Breakdown voltage at $I_C=10 \mu A$	$V_{(BR)CBO}$	30	-	-	V
Collector Emitter Breakdown Voltage at $I_C=3mA$	$V_{(BR)CEO}$	19	-	-	V
Emitter Base Breakdown Voltage at $I_E=10 \mu A$	$V_{(BR)EBO}$	2	-	-	V
Collector Cutoff Current at $V_{CB}=10V$	I_{CBO}	-	-	0.5	μA
Collector Emitter Saturation Voltage at $I_C=20mA$, $I_B=4mA$	$V_{CE(sat)}$	-	0.2	1	V
Transition Frequency at $V_{CE}=10V$, $I_C=10mA$	f_T	900	1100	-	MHz
Collector Output Capacitance at $V_{CB}=10V$, $f=1MHz$	C_{OB}	-	1	2	pF
Base Time Constant at $V_{CB}=10V$, $I_C=10mA$ $f= 31.8 \text{ MHz}$	$r_{bb'} + C_c$	-	10	25	ps
Oscillation Output Power at $V_{CB}=10V$, $I_C=10mA$ $f= 930 \text{ MHz}$	P_{out}	-	8	-	mW



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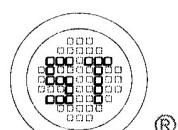
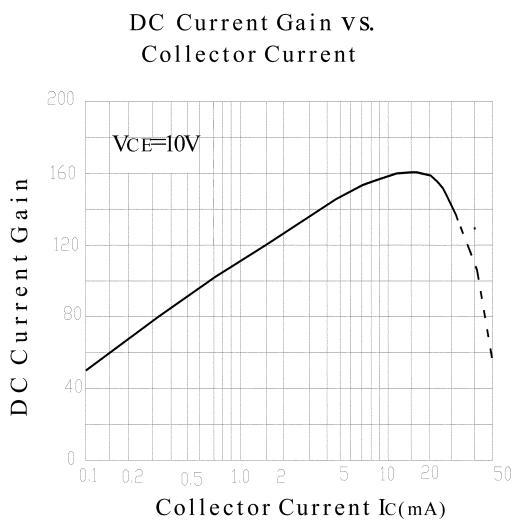
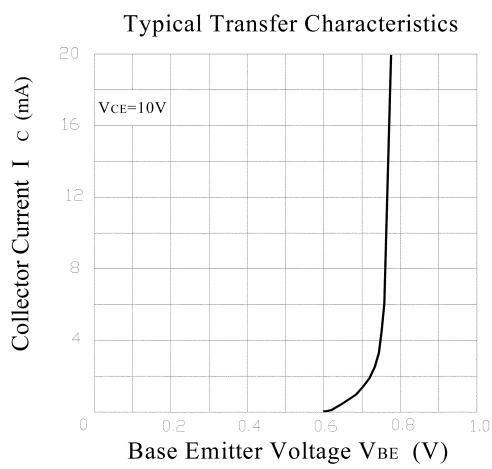
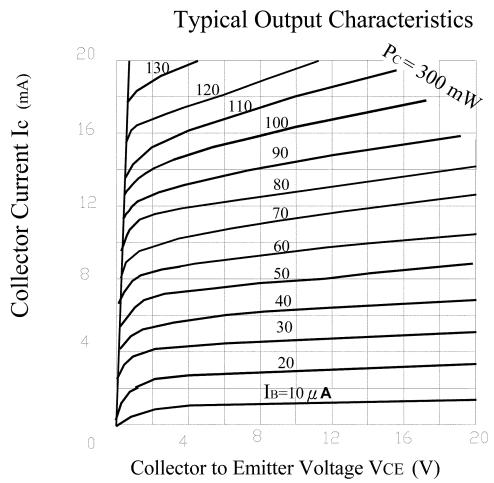
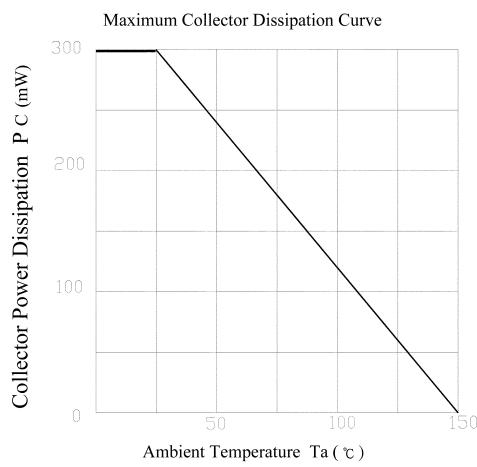


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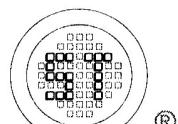
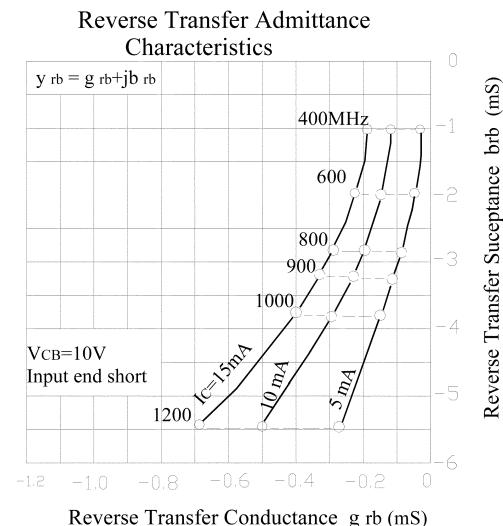
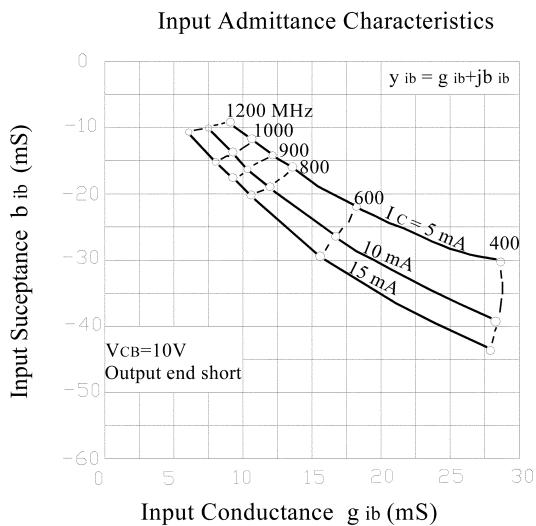
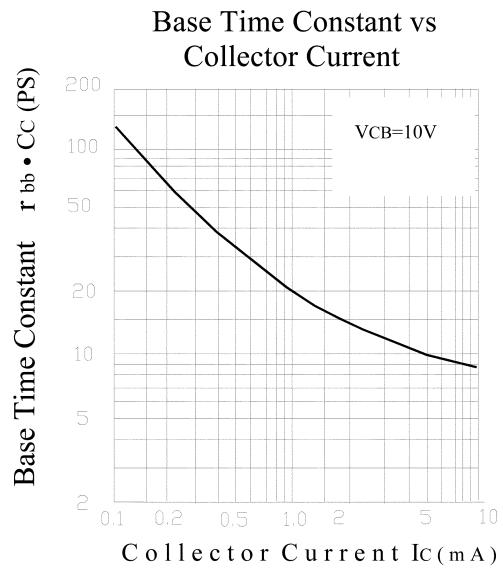
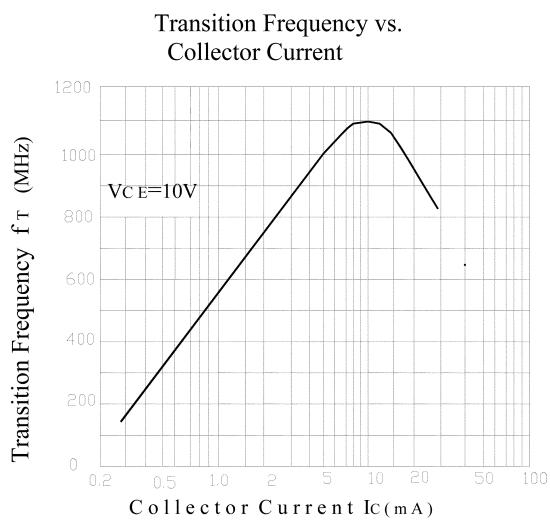
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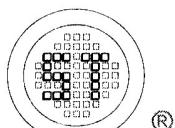
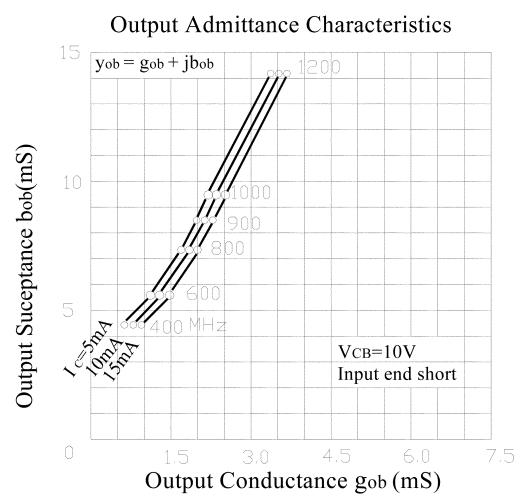
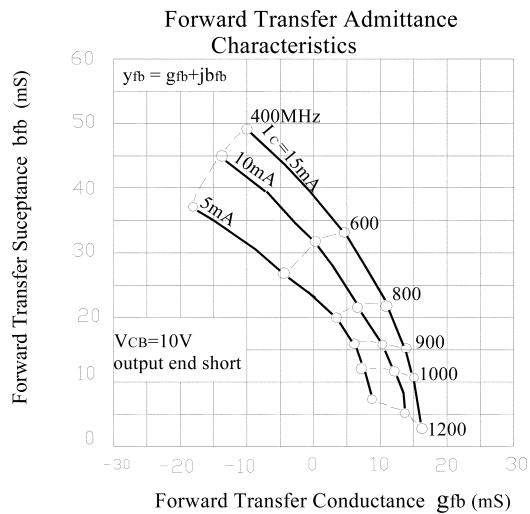
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