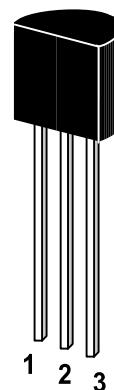


ST 2SC1907

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

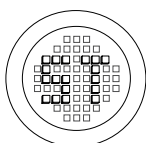
TO-92 Plastic Package

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	$-I_{\text{E}}$	50	mA
Power Dissipation	P_{tot}	300	mW
Junction Temperature	T_{j}	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{s}	-55 to +150	$^{\circ}\text{C}$

G S P FORM A IS AVAILABLE



®

РАДИОТЕХ-ТРЕЙД

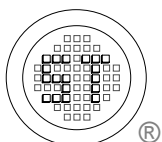
Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

ST 2SC1907

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

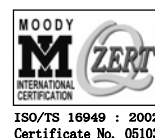
	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE}=10V$, $I_C=10mA$ Current Gain Group	h_{FE}	40	-	-	-
Collector Base Breakdown voltage at $I_C=10\mu A$	$V_{(BR)CBO}$	30	-	-	V
Collector Emitter Breakdown Voltage at $I_C=3mA$	$V_{(BR)CEO}$	19	-	-	V
Emitter Base Breakdown Voltage at $I_E=10\mu A$	$V_{(BR)EBO}$	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 $V_{CB}=10V$, $I_C=10mA$ $f=31.8MHz$	$r_{bb'} \cdot C_c$	-	10	25	ps
Oscillation Output Power at $V_{CB}=10V$, $I_C=10mA$ $f=930MHz$	P_{out}	-	8	-	mW

G S P FORM A IS AVAILABLE

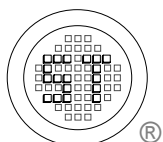
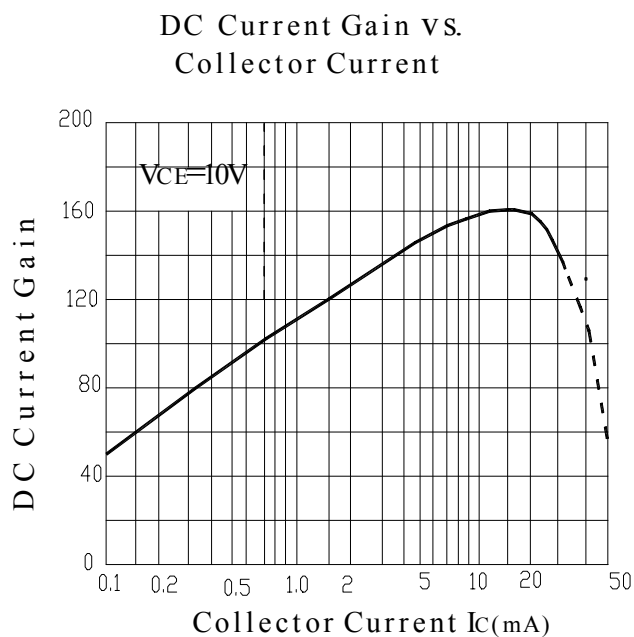
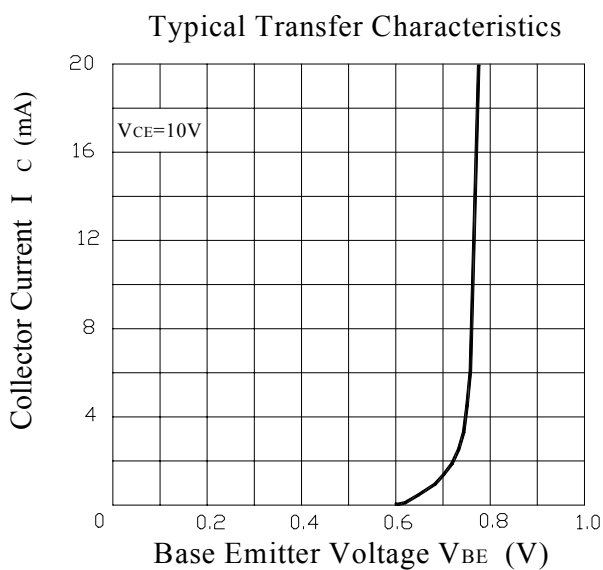
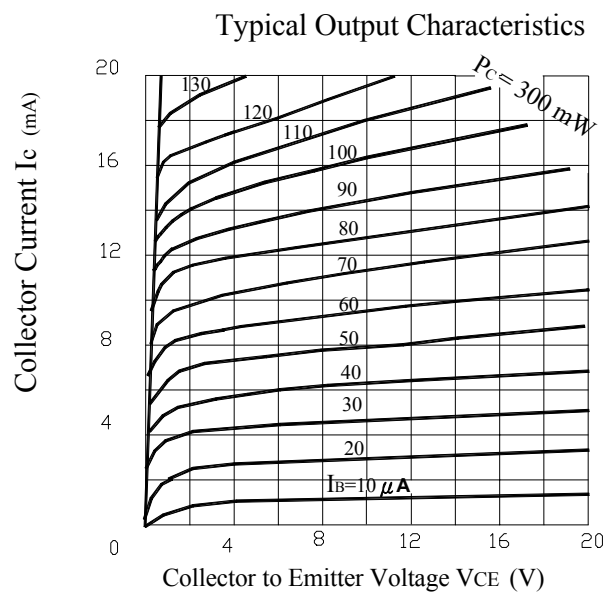
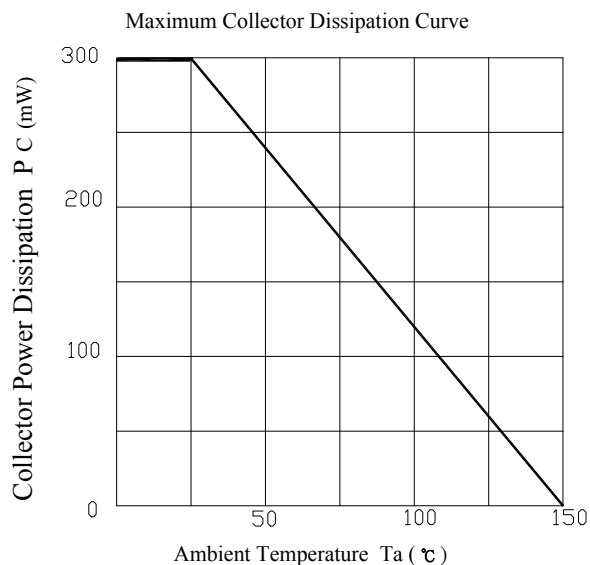


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(Subsidiary of Semtech International Holdings Limited, acompany
listed on the Hong Kong Stock Exchange, Stock Code: 724)

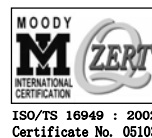


Dated : 07/12/2002



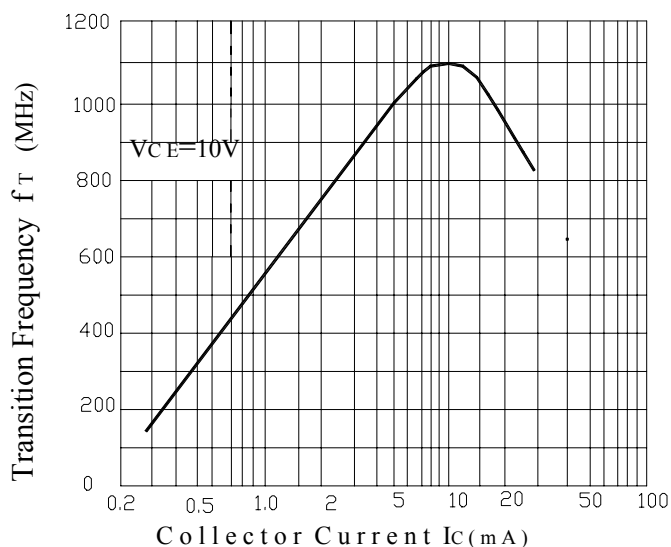
SEMTECH ELECTRONICS LTD.

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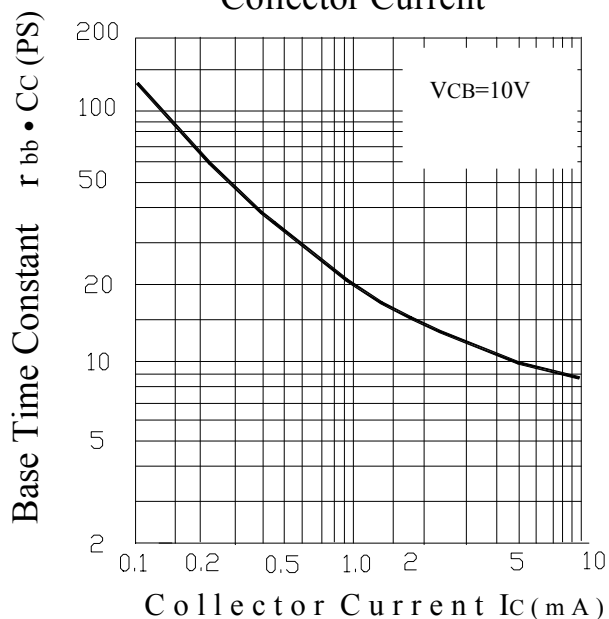


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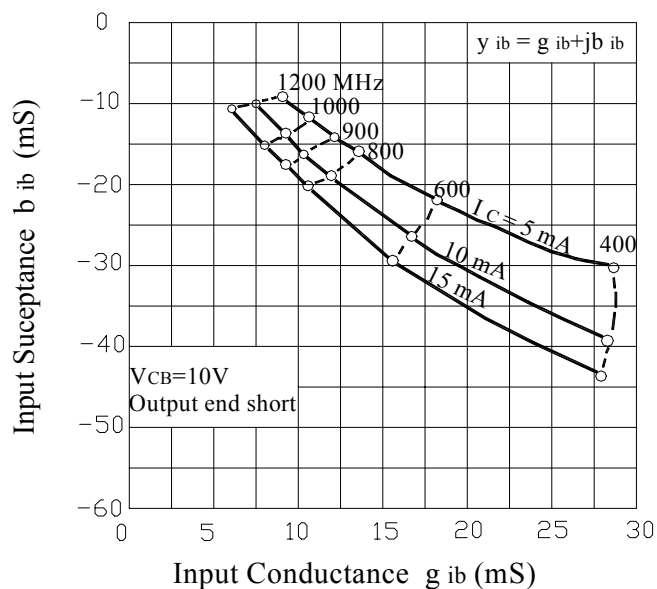
Transition Frequency vs.
Collector Current



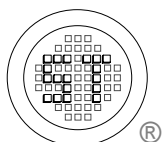
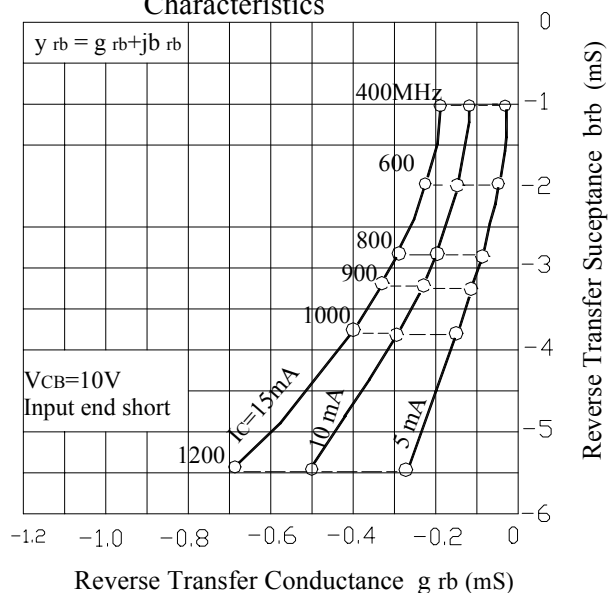
Base Time Constant vs
Collector Current



Input Admittance Characteristics

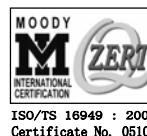


Reverse Transfer Admittance
Characteristics

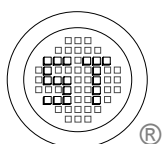
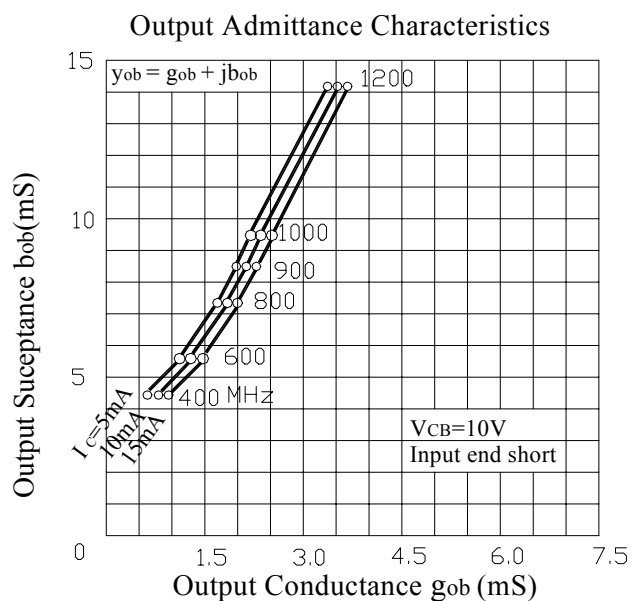
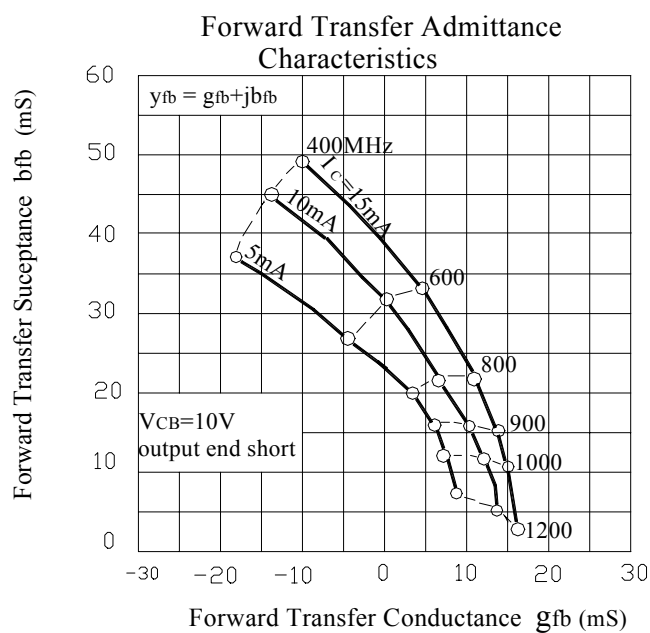


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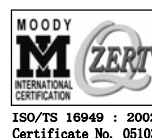


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