

2SC1921

Silicon NPN Triple Diffused

REJ03G0695-0200
(Previous ADE-208-1060)
Rev.2.00
Aug.10.2005

Application

- High frequency high voltage amplifier
- Video output

Outline

RENESAS Package code: PRSS0003DC-A
(Package name: TO-92 Mod)



1. Emitter
2. Collector
3. Base

Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	250	V
Collector to emitter voltage	V_{CEO}	200	V
Emitter to base voltage	V_{EBO}	5	V
Collector current	I_C	50	mA
Collector power dissipation	P_C	600	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

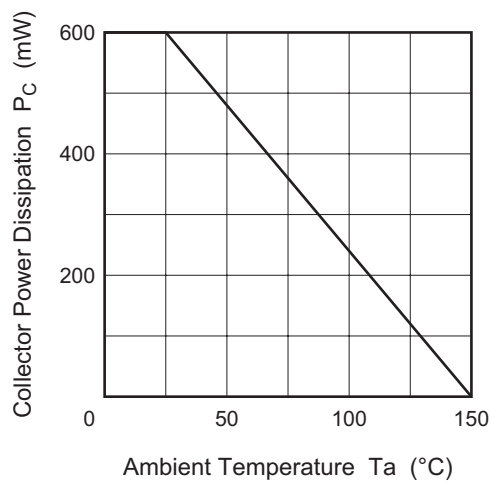
Electrical Characteristics

(Ta = 25°C)

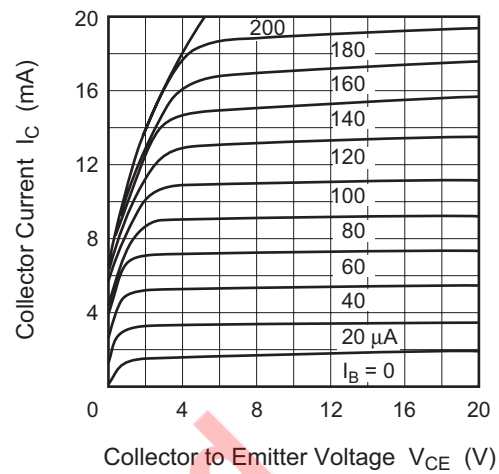
Item	Symbol	Min	Typ	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	250	—	—	V	$I_C = 10\ \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	200	—	—	V	$I_C = 1\ mA, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	5	—	—	V	$I_E = 10\ \mu A, I_C = 0$
Collector cutoff current	I_{CEO}	—	—	1.0	μA	$V_{CE} = 120\ V, R_{BE} = \infty$
DC current transfer ratio	h_{FE}	30	—	300		$V_{CE} = 6\ V, I_C = 10\ mA$
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	—	1.0	V	$I_C = 10\ mA, I_B = 1\ mA$
Gain bandwidth product	f_T	60	130	—	MHz	$V_{CE} = 6\ V, I_C = 10\ mA$
Collector output capacitance	C_{ob}	—	3	4	pF	$V_{CB} = 6\ V, I_E = 0, f = 1\ MHz$

Not recommend
for new design

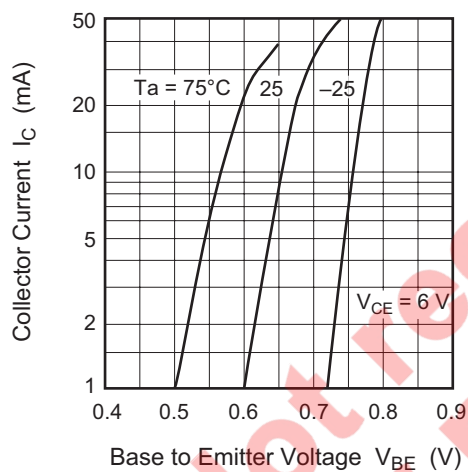
Maximum Collector Dissipation Curve



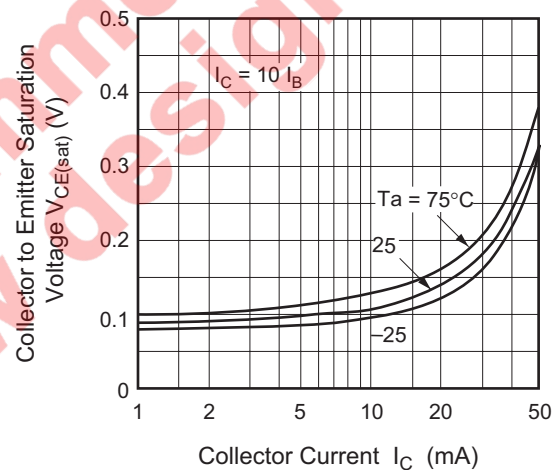
Typical Output Characteristics



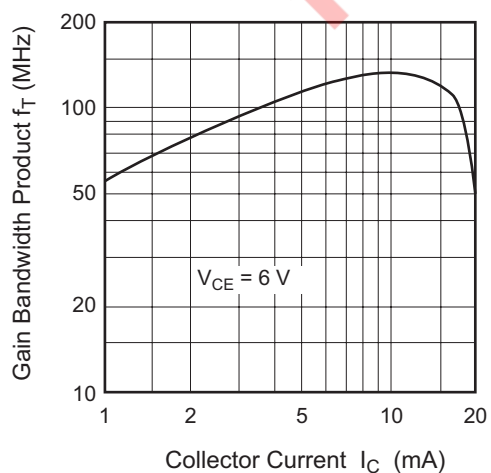
Typical Transfer Characteristics



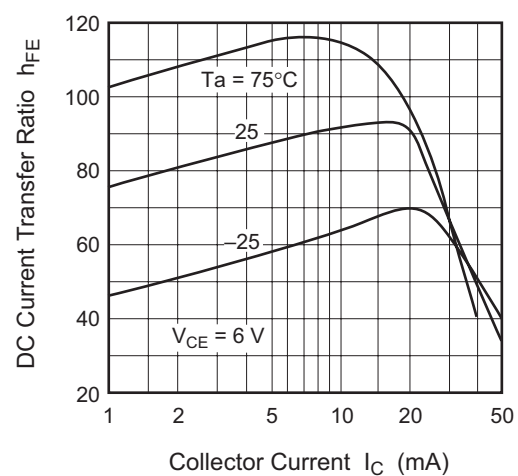
Collector to Emitter Saturation Voltage vs. Collector Current

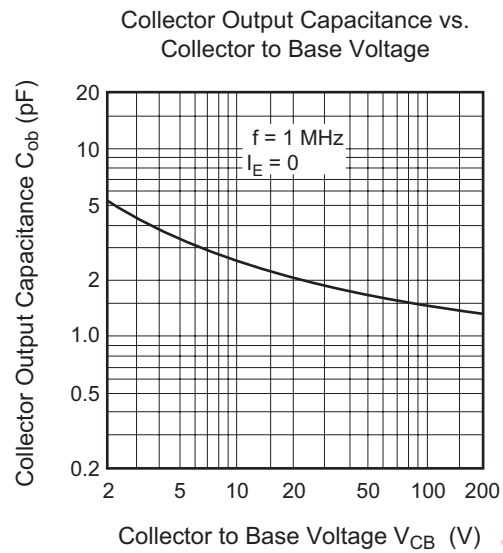


Gain Bandwidth Product vs. Collector Current



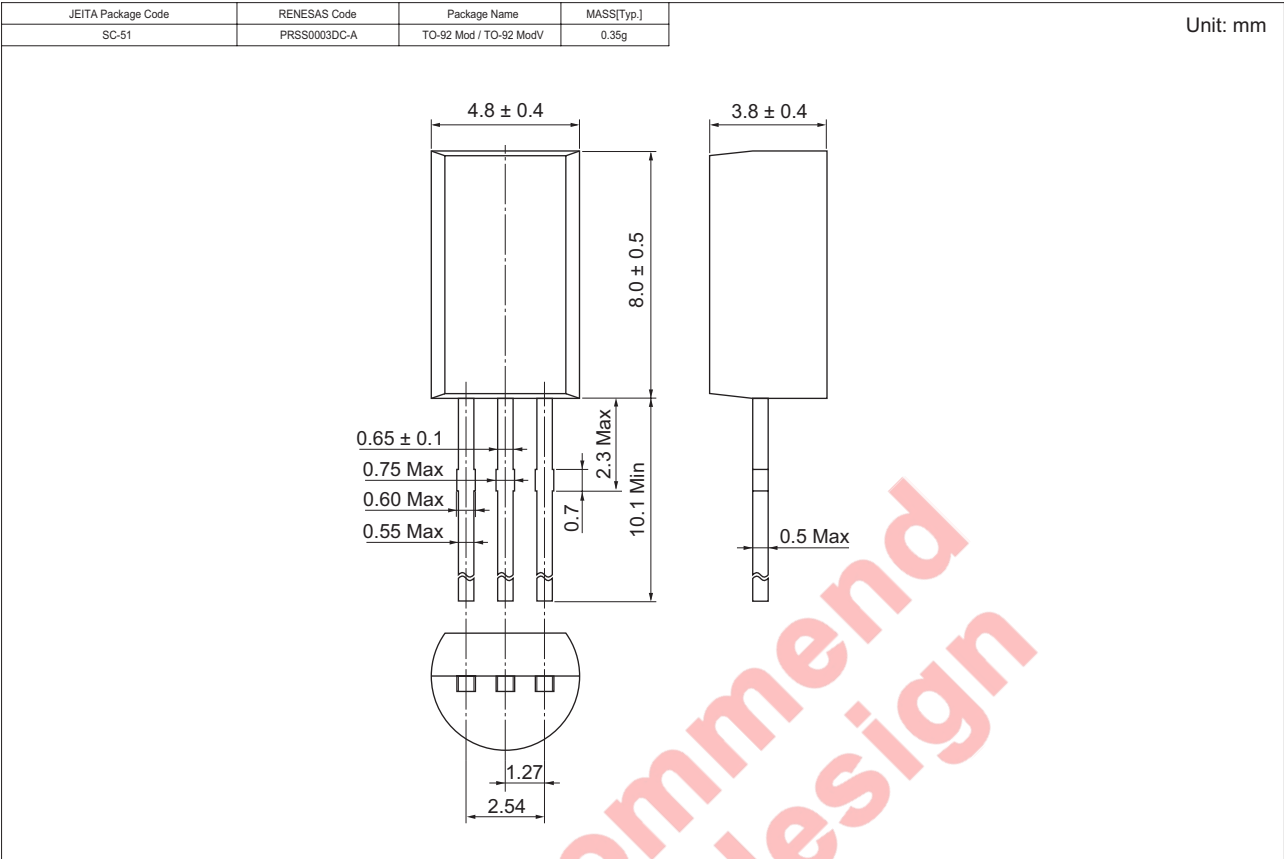
DC Current Transfer Ratio vs. Collector Current



[查询"2SC1921TZ-E"供应商](#)

Not recommended
for new design

2SC1921 供应商



Ordering Information

Part Name	Quantity	Shipping Container
2SC1921TZ-E	2500	Hold Box, Radial Taping

Note: For some grades, production may be terminated. Please contact the Renesas sales office to check the state of production before ordering the product.

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