

To all our customers

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Renesas Technology Corp.
Customer Support Dept.
April 1, 2003

Cautions

Keep safety first in your circuit designs!

1. Renesas Technology Corporation puts the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them. Trouble with semiconductors may lead to personal injury, fire or property damage.

Remember to give due consideration to safety when making your circuit designs, with appropriate measures such as (i) placement of substitutive, auxiliary circuits, (ii) use of nonflammable material or (iii) prevention against any malfunction or mishap.

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2SC1921

Silicon NPN Triple Diffused

RENESAS

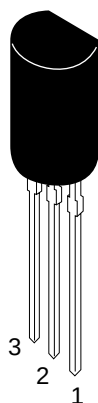
ADE-208-1060 (Z)
1st. Edition
Mar. 2001

Application

- High frequency high voltage amplifier
- Video output

Outline

TO-92MOD



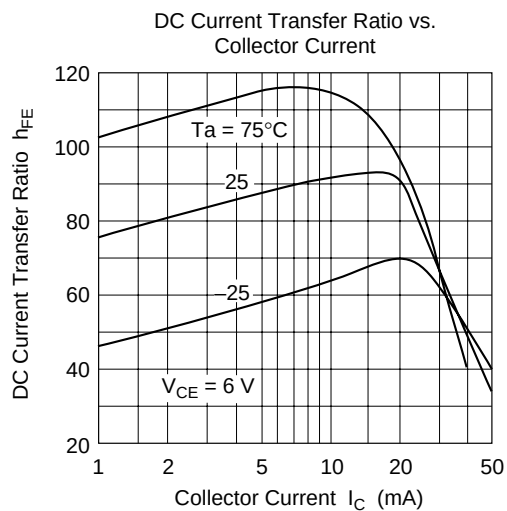
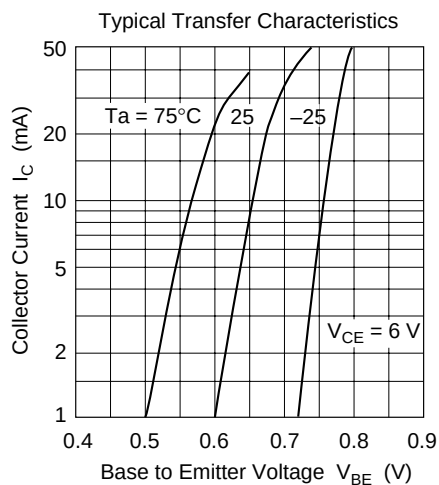
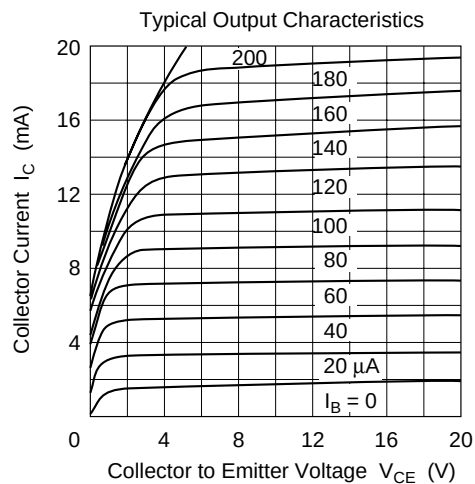
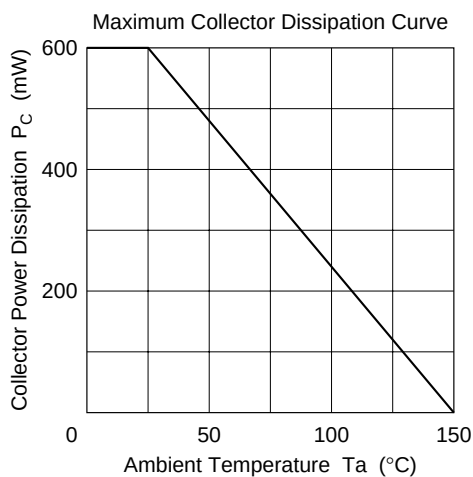
1. Emitter
2. Collector
3. Base

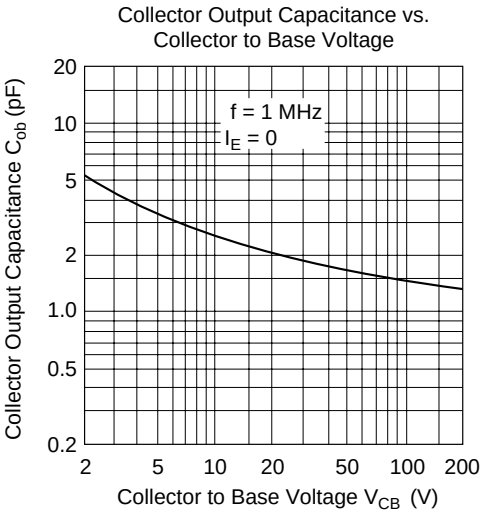
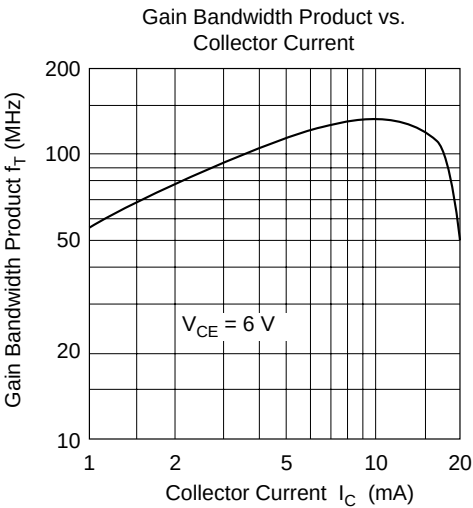
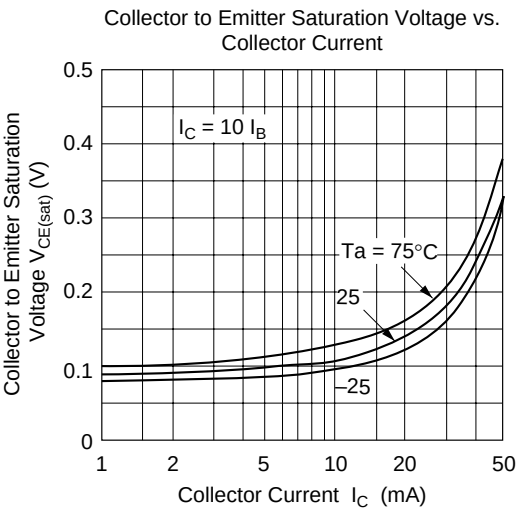
Absolute Maximum Ratings (Ta = 25°C)

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)

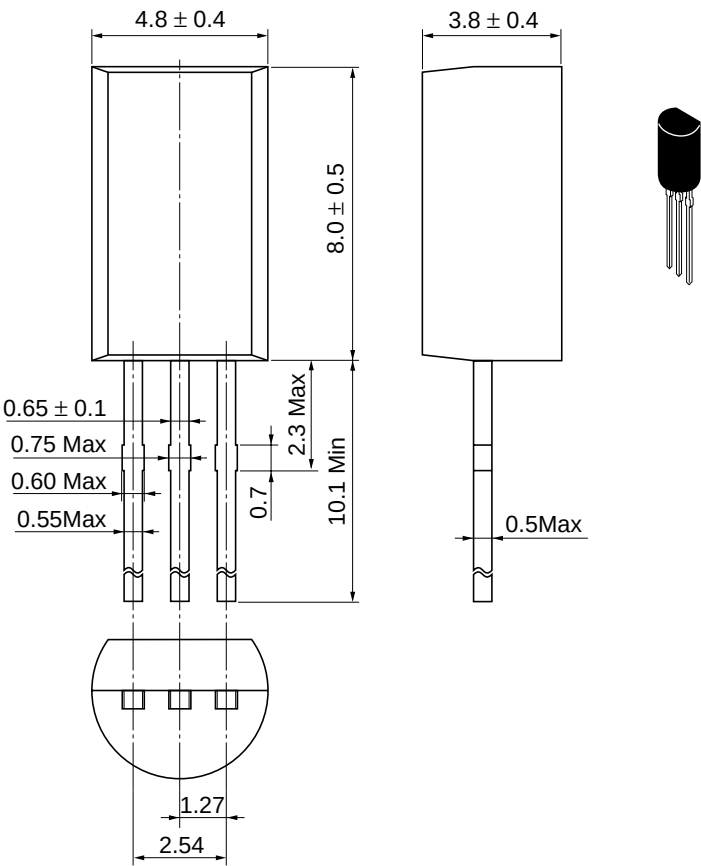
Item	Symbol	Min	Typ	Max	Unit	Test conditions
Collector to base breakdown voltage	V _{(BR)CBO}	250	—	—	V	I _C = 10 μA, I _E = 0
Collector to emitter breakdown voltage	V _{(BR)CEO}	200	—	—	V	I _C = 1 mA, R _{BE} =
Emitter to base breakdown voltage	V _{(BR)EBO}	5	—	—	V	I _E = 10 μA, I _C = 0
Collector cutoff current	I _{CEO}	—	—	1.0	μA	V _{CE} = 120 V, R _{BE} =
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





Package Dimensions

As of January, 2001
Unit: mm



Hitachi Code	TO-92 Mod
JEDEC	—
EIAJ	Conforms
Mass (reference value)	0.35 g

Cautions

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