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Rohm Semiconductor 2SA2199T2LR

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Datasheet of 2SA2199T2LR - TRANS PNP 50V 0.1A VMN3

2SA2199

Transistors

General Purpose Transistor (-50V, -100mA)2SA2199

Applications

Small signal low frequency amplifier

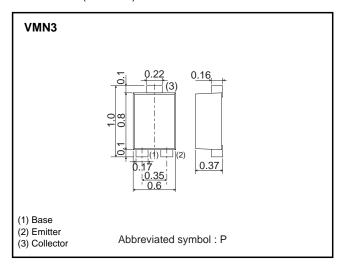
Features

- 1) Excellent hee linearity.
- 2) Complements the 2SC6114.

●Structure

PNP silicon epitaxial planar transistor

●Dimensions (Unit:mm)



● Absolute maximum (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Collector-base voltage	Vсво	-50	V	
Collector-emitter voltage	Vceo	-50	V	
Emitter-base voltage	VEBO	-5	V	
Collector current	Ic –100		0	
	Icp *1	-200	mA mA	
Power dissipation	P _D *2	150	mW	
Junction temperature	Tj	150	°C	
Range of storage temperature	Tstg	-55 to +150	°C	

^{*1} Pw=1ms Single pulse *2 Each terminal mounted on a recommended land

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●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BVceo	-50	_	_	V	Ic=-1mA
Collector-base breakdown voltage	ВУсво	-50	-	_	V	Ic=-50μA
Emitter-base breakdown voltage	ВУєво	-5	_	_	V	Iε=-50μA
Collector cutoff current	Ісво	_	_	-0.1	μΑ	Vcb=-50V
Emitter cutoff current	ІЕВО	_	_	-0.1	μΑ	V _{EB} =-5V
Collector-emitter saturation voltage	VCE(sat)	_	_	-0.3	V	Ic/I _B =-25mA/-2.5mA
DC current gain	hfe	120	_	390	_	Vce=-6V, Ic=-2mA
Transition frequency	f⊤	_	110	_	MHz	Vce=-10V, Ie=1mA, f=100MHz
Output capacitance	Cob	_	2.0	_	pF	Vcb=-10V, Ie=0A, f=1MHz

hfe RANK

Rank	Q	R
hfe	120 to 270	180 to 390

•Electrical characterristic curves

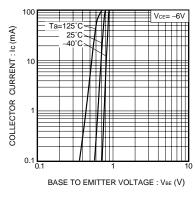


Fig.1 Grounded emitter propagation characteristics

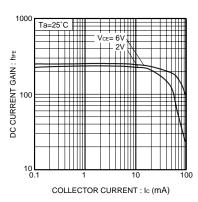


Fig.2 DC current gain vs. collector current (I)

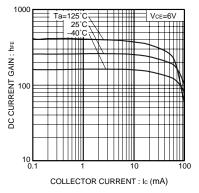


Fig.3 DC current gain vs. collector current (II)

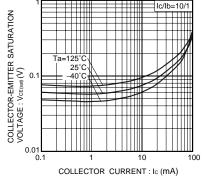


Fig.4 Collector-emitter saturation voltage vs. collector current

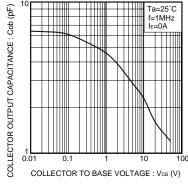


Fig.5 Collector output capacitance

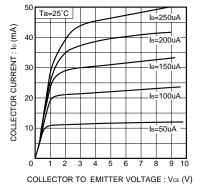


Fig.6 Typical output characteristics

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Transistors

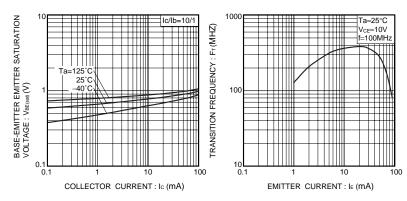


Fig.7 Base-emitter saturation voltage vs. collector current

Fig.8 Transition frequency

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Appendix

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