High-voltage Amplifier Transistor (-210V, -30mA)

Features

- 1) High breakdown voltage, (Vcer=-210V)
- 2) Complements the 2SC1651S.

●Packaging specifications and hre

Туре	2SA821
Package	SPT
hre	PQ
Code	TP
Basic ordering unit (pieces)	5000

●Absolute maximum ratings (Ta=25℃)

Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	-210	V
Collector-emitter voltage	VCER	-210	V *
Emitter-base voltage	VEBO	-5	V
Collector current	Ic	-30	mA
Collector power dissipation	Pc	250	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55~+150	°C

^{*} RBE=10kΩ

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	-210	_	_	V	Ic=-50 μ A
Collector-emitter breakdown voltage	BVcer	-210	_	_	V	Ic=-100 μ A , ReE=10kΩ
Emitter-base breakdown voltage	BVEBO	- 5	_	_	V	I∈=-50 μ A
Collector cutoff current	Ісво	_	_	-1	μΑ	V _{CB} =-150V
Emitter cutoff current	lebo	_	_	-1	μА	V _{EB} =-4.5V
Collector-emitter saturation voltage	VCE(sat)	_	_	-1	V	Ic/IB=-2mA/-0.2mA
DC current transfer ratio	hre	56	_	270	_	VcE=-3V, Ic=-5mA
Transition frequency	fτ	_	50	_	MHz	VcE=-5V, IE=2mA, f=30MHz
Output capacitance	Cob	_	8	_	pF	VcB=-10V , IE=0A , f=1MHz

(94L-183-A35)

High-voltage Amplifier Transistor (210V, 30mA)

Features

- 1) High breakdown voltage, (Vcer=210V)
- 2) Complements the 2SA821S.

●Packaging specifications and hre

Туре	2SC1651S
Package	SPT
hre	PQ
Code	TP
Basic ordering unit (pieces)	5000

●Absolute maximum ratings (Ta=25℃)

Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	210	V
Collector-emitter voltage	VCER	210	V *
Emitter-base voltage	VEBO	5	V
Collector current	lc	30	mA
Collector power dissipation	Pc	250	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55~+ 1 50	°C

^{*} R_{BE}=10KΩ

●Electrical characteristics (Ta=25℃)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	210	_	_	V	Ic=50 μ A
Collector-emitter breakdown voltage	BVcer	210	_	_	V	Ic=100 μA , ReE=10kΩ
Emitter-base breakdown voltage	BVEBO	5	_	_	V	Iε=50 μ A
Collector cutoff current	Ісво	_	_	1	μA	VcB=150V
Emitter cutoff current	IEBO	_	_	1	μA	V _{EB} =4.5V
Collector-emitter saturation voltage	VCE(sat)	_	_	1	V	Ic/Is=2mA/0.2mA, f=30MHz
DC current transfer ratio	hfE	82	_	270	_	VcE=3V, Ic=5mA
Transition frequency	f⊤	_	60	_	MHz	VcE=5V, IE=-2mA
Output capacitance	Cob	_	6	_	рF	Vcb=10V, IE=0A, f=1MHz

(94L-519-C35)

