

High-voltage Amplifier Transistor (-120V, -50mA)

2SA1579 / 2SA1514K

●Features

- 1) High breakdown voltage. (BVcEo = -120V)
- 2) Complements the 2SC4102 / 2SC3906K

●Absolute maximum ratings (Ta=25°C)

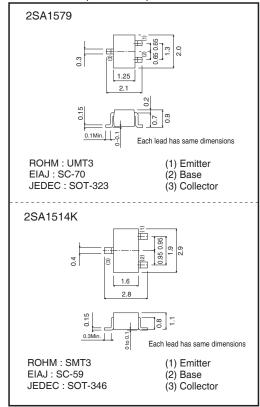
Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	-120	V
Collector-emitter voltage	Vceo	-120	V
Emitter-base voltage	VEBO	-5	V
Collector current	lc	-50	mA
Collector power dissipation	Pc	0.2	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

●Packaging specifications and hfe

Туре	2SA1579	2SA1514K
Package	UMT3	SMT3
hfe	RS	RS
Marking	R*	R*
Code	T106	T146
Basic ordering unit (pieces)	3000	3000

^{*}Denotes hre

●Dimensions (Units : mm)



●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions		
Collector-base breakdown voltage	ВУсво	-120	_	_	V	Ic= -50μA		
Collector-emitter breakdown voltage	BVceo	-120	_	_	V	Ic=-1mA		
Emitter-base breakdown voltage	ВУево	-5	_	_	V	I _E = -50μA		
Collector cutoff current	Ісво	_	_	-0.5	μΑ	V _{CB} = -100V		
Emitter cutoff current	ІЕВО	_	_	-0.5	μΑ	V _{EB} = -4V		
Collector-emitter saturation voltage	VCE(sat)	-	-	-0.5	V	Ic/I _B = -10mA/-1mA		
DC current transfer ratio	hfE	180	_	560	_	Vce= -6V, Ic= -2mA		
Transition frequency	f⊤	_	140	_	MHz	Vc=-12V, I=2mA, f=100MHz		
Output capacitance	Cob	_	3.2	_	pF	Vcb= -12V, Ie=0A, f=1MHz		

•Electrical characteristics curves

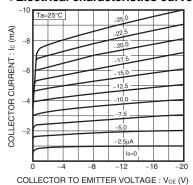


Fig.1 Ground emitter output characteristics

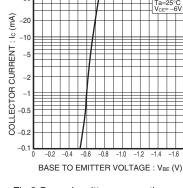


Fig.2 Ground emitter propagation characteristics

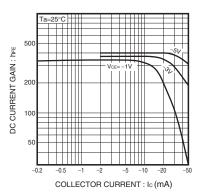


Fig.3 DC current gain vs. collector current

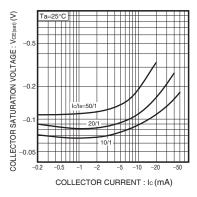


Fig.4 Collector-Emitter saturation voltage vs. collector current

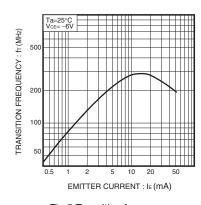


Fig.5 Transition frequency vs. emitter current

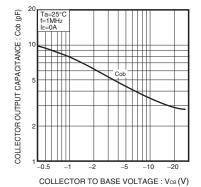


Fig.6 Collector output capacitance vs. collector-base voltage

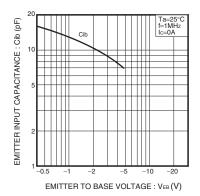


Fig.7 Emitter input capacitance vs. emitter-base voltage

Notes

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