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

2SA1579 / 2SA1514K / 2SA1038S

Features

- 1) High breakdown voltage. (BVcEo = -120V)
- 2) Complements the 2SC4102 / 2SC3906K / 2SC2389S.

● Absolute maximum ratings (Ta=25°C)

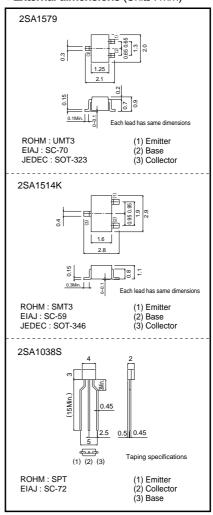
Parameter		Symbol	Limits	Unit	
Collector-base voltage		Vсво	-120	V	
Collector-emitter voltage		Vceo	-120	V	
Emitter-base voltage		VEBO	-5	V	
Collector current		lc	-50	mA	
Collector power dissipation	2SA1579 / 2SA1514K	Pc	0.2	w	
	2SA1038S	Pc	0.3		
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55~+150	°C	

●Packaging specifications and hFE

Туре	2SA1579	2SA1514K	2SA1038S
Package	UMT3	SMT3	SPT
hfE	RS	RS	RS
Marking	R*	R*	-
Code	T106	T146	TP
Basic ordering unit (pieces)	3000	3000	5000

*Denotes hre

●External 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	BVEBO	-5	-	-	V	Iε=-50μA
Collector cutoff current	Ісво	-	-	-0.5	μА	VcB=-100V
Emitter cutoff current	Ієво	-	-	-0.5	μА	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	Vce=-12V, Ie=2mA, f=30MHz
Output capacitance	Cob	-	3.2	-	pF	VcB=-12V, IE=0A, f=1MHz