

# High-voltage Amplifier Transistor ( $-120\text{V}$ , $-50\text{mA}$ )

# 2SA1579 / 2SA1514K / 2SA1038S

## ● Features

- 1) High breakdown voltage. ( $BV_{CEO} = -120V$ )
- 2) Complements the 2SC4102 / 2SC3906K / 2SC2389S.

●Absolute maximum ratings (Ta=25°C)

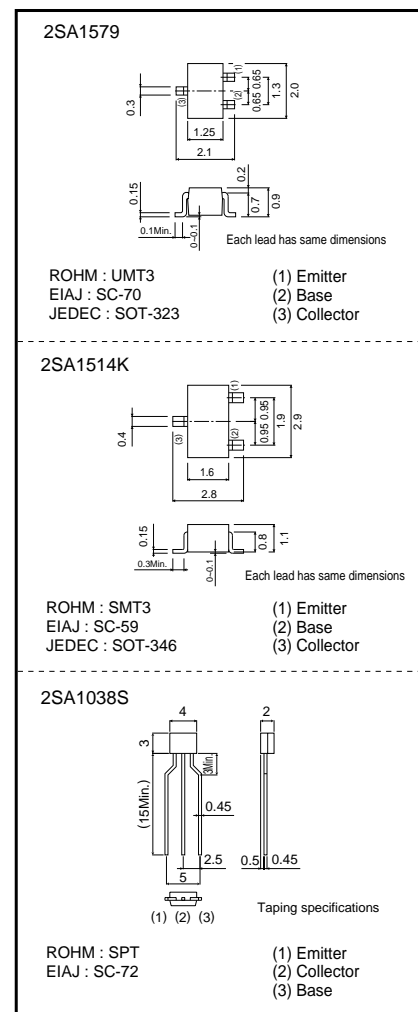
Parameter	Symbol	Limits	Unit
Collector-base voltage	$V_{CB0}$	-120	V
Collector-emitter voltage	$V_{CE0}$	-120	V
Emitter-base voltage	$V_{EB0}$	-5	V
Collector current	$I_c$	-50	mA
Collector power dissipation	<div> <div>2SA1579 / 2SA1514K</div> <div>2SA1038S</div> </div>	0.2	W
		0.3	
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55~+150	°C

### ●Packaging specifications and $h_{FE}$

Type	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 hFE

●External dimensions (Units : mm)



### ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	$BV_{CBO}$	-120	—	—	V	$I_C = -50\mu A$
Collector-emitter breakdown voltage	$BV_{CEO}$	-120	—	—	V	$I_C = -1mA$
Emitter-base breakdown voltage	$BV_{EBO}$	-5	—	—	V	$I_E = -50\mu A$
Collector cutoff current	$I_{CBO}$	—	—	-0.5	$\mu A$	$V_{CB} = -100V$
Emitter cutoff current	$I_{EBO}$	—	—	-0.5	$\mu A$	$V_{EB} = -4V$
Collector-emitter saturation voltage	$V_{CE(sat)}$	—	—	-0.5	V	$I_C/I_E = -10mA/-1mA$
DC current transfer ratio	$h_{FE}$	180	—	560	—	$V_{CE} = -6V, I_C = -2mA$
Transition frequency	$f_T$	—	140	—	MHz	$V_{CE} = -12V, I_E = 2mA, f = 30MHz$
Output capacitance	$C_{ob}$	—	3.2	—	pF	$V_{CB} = -12V, I_E = 0A, f = 1MHz$

This datasheet has been download from:

[www.datasheetcatalog.com](http://www.datasheetcatalog.com)

Datasheets for electronics components.