

Excellent Integrated System Limited

Stocking Distributor

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[Rohm Semiconductor](#)
[2SA1514KT146R](#)

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sales@integrated-circuit.com

2SA1579 / 2SA1514K / 2SA1038S

Transistors

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

2SA1579 / 2SA1514K / 2SA1038S

●Features

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

●Absolute maximum ratings ($T_a=25^\circ C$)

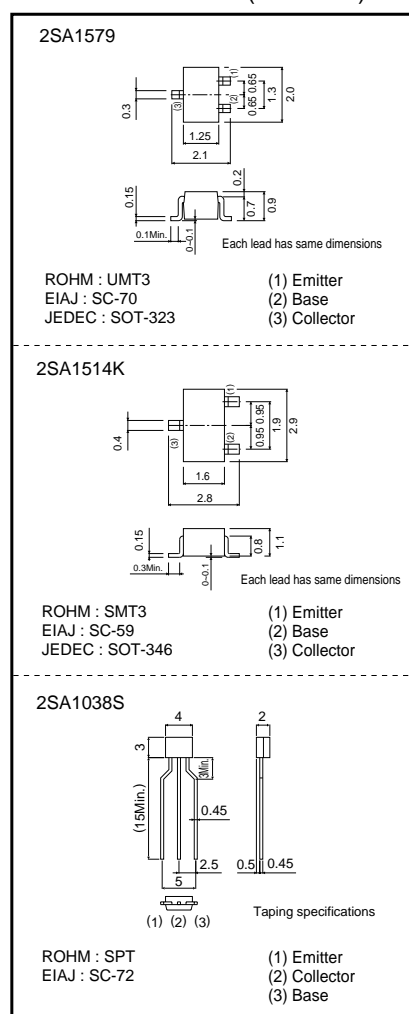
Parameter	Symbol	Limits	Unit	
Collector-base voltage	V_{CBO}	-120	V	
Collector-emitter voltage	V_{CEO}	-120	V	
Emitter-base voltage	V_{EBO}	-5	V	
Collector current	I_C	-50	mA	
Collector power dissipation	2SA1579 / 2SA1514K 2SA1038S	P_C	0.2	W
			0.3	
Junction temperature	T_J	150	$^\circ C$	
Storage temperature	T_{stg}	-55~+150	$^\circ C$	

●Packaging specifications and h_{FE}

Type	2SA1579	2SA1514K	2SA1038S
Package	UMT3	SMT3	SPT
h_{FE}	RS	RS	RS
Marking	R*	R*	-
Code	T106	T146	TP
Basic ordering unit (pieces)	3000	3000	5000

*Denotes h_{FE}

●External dimensions (Units : mm)



●Electrical characteristics ($T_a=25^\circ C$)

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	μA	$V_{CB} = -100V$
Emitter cutoff current	I_{EBO}	-	-	-0.5	μA	$V_{EB} = -4V$
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	$V_{CB} = -12V, I_E = 0A, f = 1MHz$