



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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	P _c	0.2	W
		0.3	
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55~+150	°C

●Packaging specifications and hFE

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)

2SA1579

Each lead has same dimensions

ROHM : UMT3 (1) Emitter
EIAJ : SC-70 (2) Base
JEDEC : SOT-323 (3) Collector

2SA1514K

Each lead has same dimensions

ROHM : SMT3 (1) Emitter
EIAJ : SC-59 (2) Base
JEDEC : SOT-346 (3) Collector

2SA1038S

Taping specifications

ROHM : SPT (1) Emitter
EIAJ : SC-72 (2) Collector
(3) Base

●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	hFE	180	-	560	-	$V_{CE}=-6V, I_c=-2mA$
Transition frequency	f _r	-	140	-	MHz	$V_{CE}=-12V, I_e=2mA, f=30MHz$
Output capacitance	C _{ob}	-	3.2	-	pF	$V_{CB}=-12V, I_e=0A, f=1MHz$