General Purpose Transistor (–50V, –0.15A)

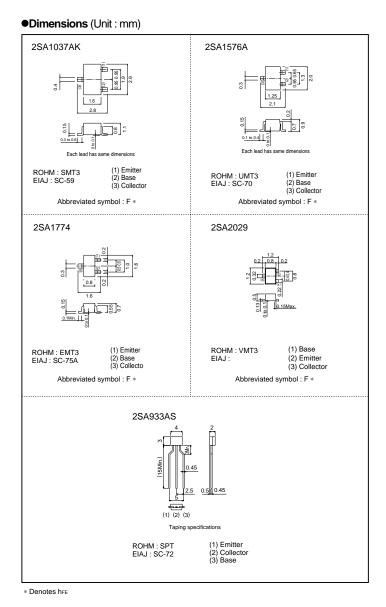
2SA1037AK / 2SA1576A / 2SA1774 / 2SA2029 / 2SA933AS

Features

- Excellent hre linearity.
- 2) Complements the 2SC2412K / 2SC4081 / 2SC4617 / 2SC5658 / 2SC1740S.

Structure

Epitaxial planar type. PNP silicon transistor



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Transistors

•Absolute maximum ratings (Ta=25°C)

	Symbol	Limits	Unit	
Collector-base voltage		Vсво	-60	V
Collector-emitter voltage		Vceo	-50	V
Emitter-base voltage		Vево	-6	V
Collector current		lc –0.15		A (DC)
Collector power dissipation	2SA1037AK, 2SA1576A		0.2	W
	2SA2029, 2SA1774	Pc	0.15	
	2SA933AS		0.3	
Junction temperature		Tj	150	°C
Storage temperature		Tstg	-55 to +150	°C

•Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	-60	-	-	V	Ic=-50μA
Collector-emitter breakdown voltage	BVCEO	-50	-	-	V	Ic=-1mA
Emitter-base breakdown voltage	ВVево	-6	-	-	V	le= -50μA
Collector cutoff current	Ісво	-	-	-0.1	μΑ	Vcb=-60V
Emitter cutoff current	Іево	-	-	-0.1	μΑ	Veb=-6V
Collector-emitter saturation voltage	VCE(sat)	-	-	-0.5	V	Ic/I _B = -50mA/-5mA
DC current transfer ratio	hfe	120	-	560	-	Vce=-6V, Ic=-1mA
Transition frequency	f⊤	-	140	-	MHz	Vce=-12V, Ie=2mA, f=100MHz
Output capacitance	Cob	-	4.0	5.0	pF	Vcb=-12V, Ie=0A, f=1MHz

Packaging specifications and hre

		Package	Taping				
		Code	T146	T106	TL	T2L	TP
Туре	hfe	Basic ordering unit (pieces)	3000	3000	3000	8000	5000
2SA2029	QRS		-	-	-	0	-
2SA1037AK	QRS		0	-	-	_	_
2SA1576A	QRS		-	0	-	_	_
2SA1774	QRS		-	-	0	_	_
2SA933AS	QRS		-	-	-	_	0

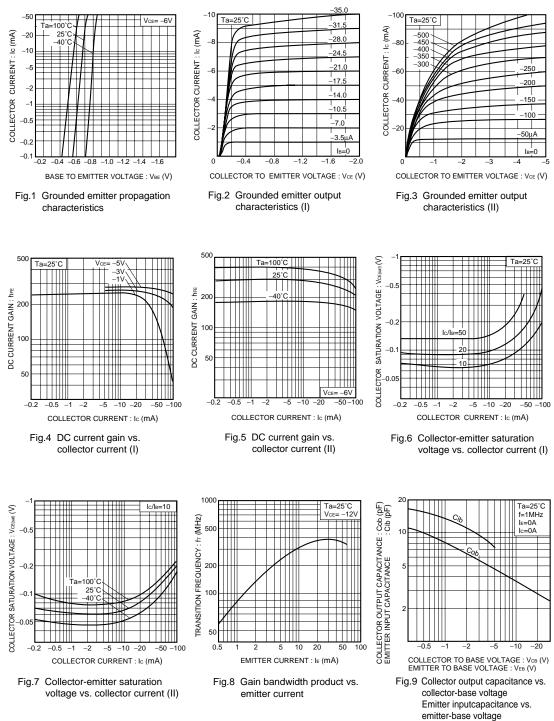
hre values are classified as follows:

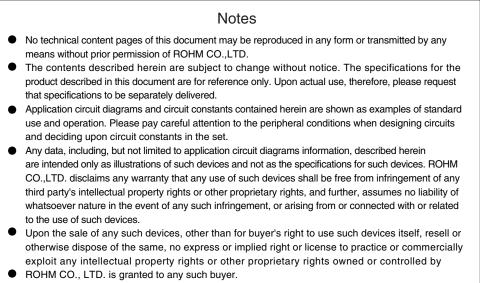
Item Q		R	S		
hfe	120 to 270	180 to 390	270 to 560		

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Transistors







• Products listed in this document are no antiradiation design.

The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

It is our top priority to supply products with the utmost quality and reliability. However, there is always a chance of failure due to unexpected factors. Therefore, please take into account the derating characteristics and allow for sufficient safety features, such as extra margin, anti-flammability, and fail-safe measures when designing in order to prevent possible accidents that may result in bodily harm or fire caused by component failure. ROHM cannot be held responsible for any damages arising from the use of the products under conditions out of the range of the specifications or due to non-compliance with the NOTES specified in this catalog.

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