

2SA1309ASA Datasheet



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DiGi Electronics Part Number 2SA1309ASA-DG

Manufacturer Panasonic Electronic Components

Manufacturer Product Number 2SA1309ASA

Description TRANS PNP 50V 0.1A NS-B1

Detailed Description Bipolar (BJT) Transistor PNP 50 V 100 mA 80MHz 30

0 mW Through Hole NS-B1



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RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:			
2SA1309ASA	Panasonic Electronic Components			
Series:	Product Status:			
	Obsolete			
Transistor Type:	Current - Collector (Ic) (Max):			
PNP	100 mA			
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, Ic:			
50 V	300mV @ 5mA, 50mA			
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ Ic, Vce:			
1µА	290 @ 2mA, 10V			
Power - Max:	Frequency - Transition:			
300 mW	80MHz			
Operating Temperature:	Mounting Type:			
150°C (TJ)	Through Hole			
Package / Case:	Supplier Device Package:			
3-SIP	NS-B1			
Base Product Number:				
2541300				

Environmental & Export classification

Moisture Sensitivity Level (MSL):	ECCN:
1 (Unlimited)	EAR99
HTSUS:	
8541.21.0095	

2SA1309A

Silicon PNP epitaxial planar type

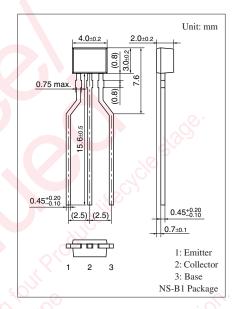
For low-frequency amplification Complementary to 2SC3311A

■ Features

- High forward current transfer ratio h_{FE}
- Allowing supply with the radial taping
- Optimum for high-density mounting

■ Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V_{CBO}	-60	V
Collector-emitter voltage (Base open)	V _{CEO}	-50	V
Emitter-base voltage (Collector open)	V_{EBO}	-7	V
Collector current	I_{C}	-100	mA
Peak collector current	I_{CP}	-200	mA
Collector power dissipation	P _C	300	mW
Junction temperature	T _j	150	°CO
Storage temperature	T _{stg}	-55 to +150	°C



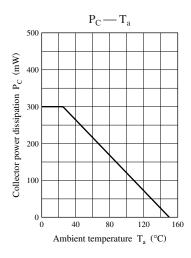
■ Electrical Characteristics T_a = 25°C ± 3°C

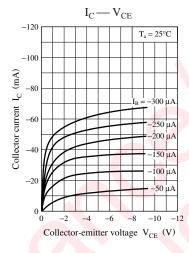
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \mu\text{A}, I_{\rm E} = 0$	-60			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_C = -2 \text{ mA}, I_B = 0$	-50			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_E = -10 \mu A, I_C = 0$	-7			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = -10 \text{ V}, I_E = 0$			-100	nA
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -10 \text{ V}, I_B = 0$			-1	μΑ
Forward current transfer ratio *	h_{FE}	$V_{CE} = -10 \text{ V}, I_{C} = -2 \text{ mA}$	160		460	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = -50 \text{ mA}, I_B = -5 \text{ mA}$			- 0.3	V
Transition frequency	f _T	$V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 200 \text{ MHz}$		80		MHz
Collector output capacitance	Cob	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		3.5		pF
(Common base, input open circuited)						

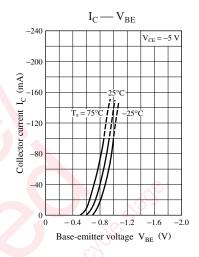
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

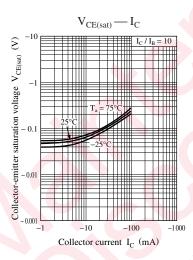
2. *: Rank classification

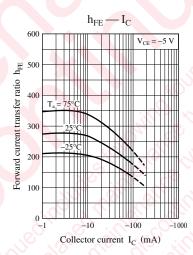
Rank	Q	R	S	No rank
h _{FE}	160 to 260	210 to 340	290 to 460	160 to 460

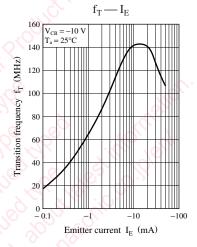


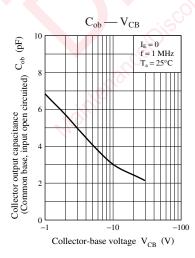












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