

2SA207900A Datasheet



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DiGi Electronics Part Number 2SA207900A-DG

Manufacturer Panasonic Electronic Components

Manufacturer Product Number 2SA207900A

Description TRANS PNP 45V 0.1A ML3-N2

Detailed Description Bipolar (BJT) Transistor PNP 45 V 100 mA 80MHz 10

0 mW Surface Mount ML3-N2



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DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
2SA207900A	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Series:	Product Status:
	Obsolete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, lc:
45 V	500mV @ 10mA, 100mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ Ic, Vce:
100μΑ	180 @ 2mA, 10V
Power - Max:	Frequency - Transition:
100 mW	80MHz
Operating Temperature:	Mounting Type:
125°C (TJ)	Surface Mount
Package / Case:	Supplier Device Package:
SC-101, SOT-883	ML3-N2
Base Product Number:	
2SA2079	

Environmental & Export classification

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

Transistors Panasonic

2SA2079

Silicon PNP epitaxial planar type

For general amplification Complementary to 2SC5848

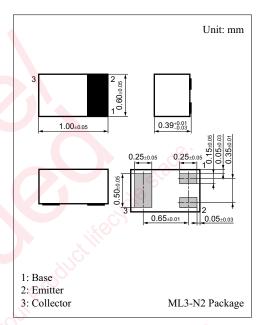
■ Features

- High forward current transfer ratio h_{FE}
- Suitable for high-density mounting and douwsizing of the equipment for ultraminiature leadless package

Package: $0.6 \text{ mm} \times 1.0 \text{ mm}$ (hight 0.39 mm)

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	-4 5	V	
Collector-emitter voltage (Base open)	V _{CEO}	-45	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	$P_{\rm C}$	100	mW	
Junction temperature	T_{j}	125	°C	
Storage temperature	T _{stg}	-55 to +125	°C	



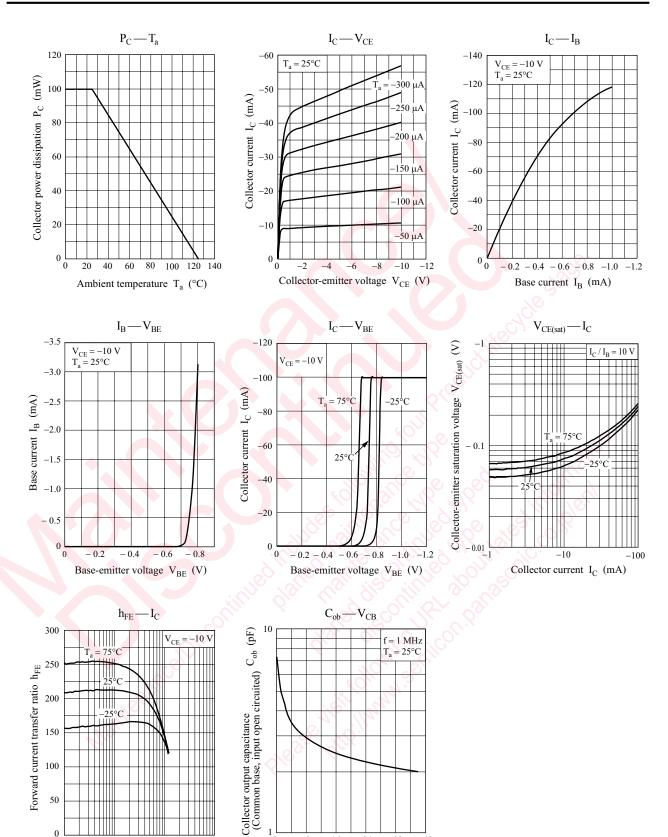
Marking Symbol: 3D

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \mu\text{A}, I_{\rm E} = 0$	-45			V
Collector-emitter voltage (Base open)	V_{CEO}	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-45			V
Emitter-base voltage (Collector open)	$ m V_{EBO}$	$I_E = -10 \mu\text{A}, I_C = 0$	-7			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -20 \text{ V}, I_E = 0$			-0.1	μΑ
Collector-emitter cut-off current (Base open)	I _{CEO}	$V_{CE} = -10 \text{ V}, I_{B} = 0$			-100	μΑ
Forward current transfer ratio	h_{FE}	$V_{CE} = -10 \text{ V}, I_{C} = -2 \text{ mA}$	180		390	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -100 \text{ mA}, I_{\rm B} = -10 \text{ mA}$		-0.2	-0.5	V
Transition frequency	f_T	$V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 200 \text{ MHz}$		80		MHz
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		2.2		pF

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

Panasonic 2SA2079



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-24 Collector-base voltage V_{CB} (V)

2 SJC00326AED

Collector current I_C (mA)

0

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