DSA9G01

Silicon NPN epitaxial planar type

For high-frequency amplification DSA5G01 in SSMini3 type package

■ Features

- High transition frequency f_T
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

Packaging

Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V _{CBO}	-30	V
Collector-emitter voltage (Base open)	V _{CEO}	-20	V
Emitter-base voltage (Collector open)	ctor open) V _{EBO}		V
Collector current	I_{C}	-30	mA
Collector power dissipation	P _C	125	mW
Junction temperature	T_j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

■ Package

• Code SSMini3-F3-B

• Pin Name

- 1. Base
- 2. Emitter
- 3. Collector

■ Marking Symbol: A4

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Base-emitter voltage	V_{BE}	$V_{CE} = -10 \text{ V}, I_{C} = -1 \text{ mA}$		-0.7		V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{\rm CB} = -10 \text{ V}, I_{\rm E} = 0$			-0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -20 \text{ V}, I_{B} = 0$			-100	μА
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = -5 \text{ V}, I_C = 0$			-10	μА
Forward current transfer ratio *	h_{FE}	$V_{CE} = -10 \text{ V}, I_{C} = -1 \text{ mA}$	70		220	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = -1 \text{ mA}$		-0.1		V
Transition frequency	f_T	$V_{CE} = -10 \text{ V}, I_{C} = -1 \text{ mA}$	150	300		MHz
Reverse transfer capacitance (Common emitter)	C _{re}	$V_{CE} = -10 \text{ V}, I_{C} = -1 \text{ mA}, f = 10.7 \text{ MHz}$		1.0		pF
Noise figure	NF	$V_{CE} = -10 \text{ V}, I_{C} = -1 \text{ mA}, f = 5 \text{ MHz}$		2.8		dB
Reverse transfer impedance	Z_{rb}	$V_{CE} = -10 \text{ V}, I_{C} = -1 \text{ mA}, f = 2 \text{ MHz}$		22		Ω

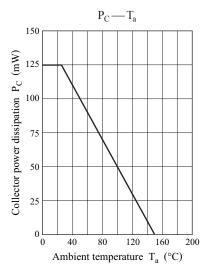
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

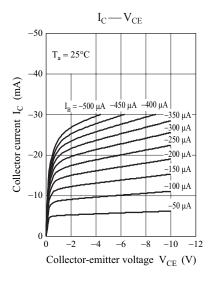
2. *: Rank classification

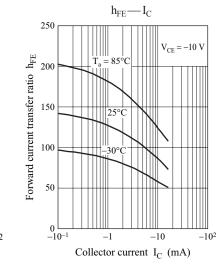
Code	В	С	0	
Rank	В	С	No-rank	
$h_{ m FE}$	70 to 140	110 to 220	70 to 220	
Marking Symbol	A4B	A4C	A4	

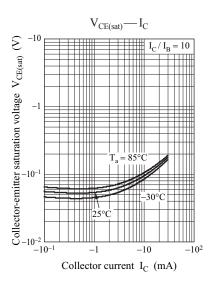
Product of no-rank is not classified and have no marking symbol for rank.

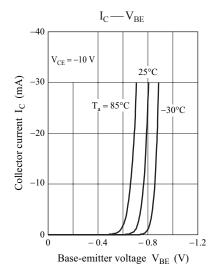
DSA9G01 Panasonic

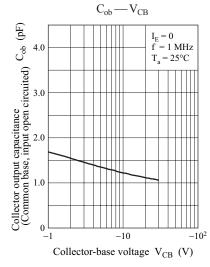


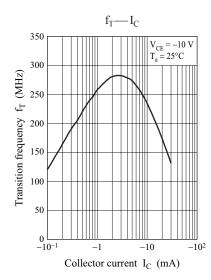








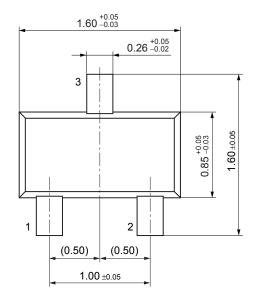


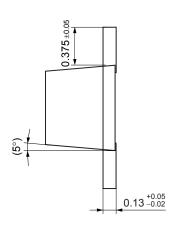


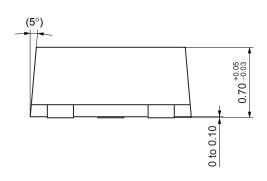
2 Ver. BED

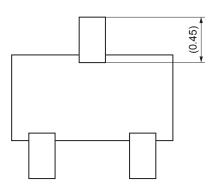
SSMini3-F3-B

Unit: mm









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