DSA2G01

Silicon PNP epitaxial planar type

For high-frequency amplification

Features

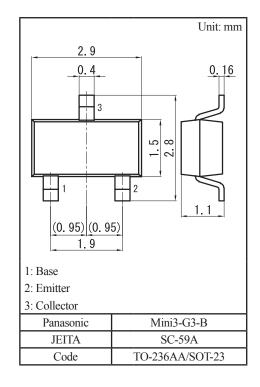
- \bullet High transition frequency $f_{\rm T}$
- Halogen-free / RoHS compliant
- (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

Marking Symbol: A4

Packaging

DSA2G01×0L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

Absolute Maximum Ratings $T_a = 25^{\circ}C$ Parameter Symbol Rating Unit V_{CBO} Collector-base voltage (Emitter open) -30 V Collector-emitter voltage (Base open) V_{CEO} -20V V Emitter-base voltage (Collector open) V_{EBO} -5 -30 Collector current $I_{\rm C}$ mA 200 mW Collector power dissipation $\mathbf{P}_{\mathbf{C}}$ Junction temperature T_i 150 °C °C Operating ambient temperature -40 to +85 Topr -55 to +150 Storage temperature °C T_{stg}



Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

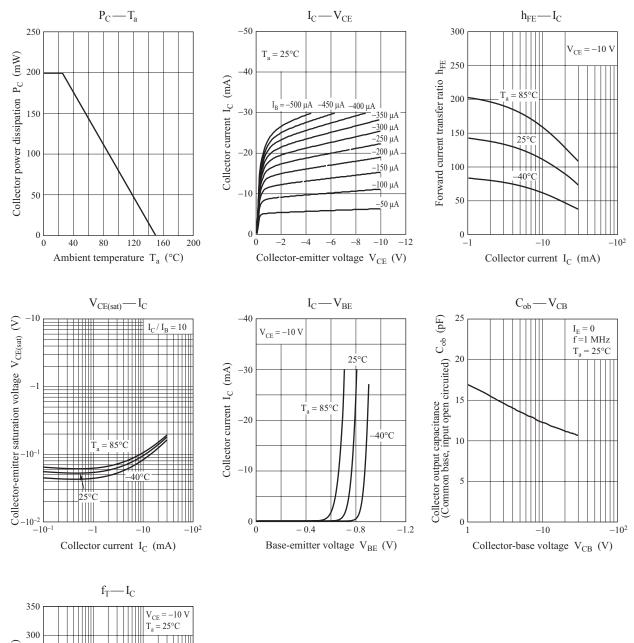
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Base-emitter voltage	V _{BE}	$V_{CE} = -10 \text{ V}, I_C = -1 \text{ mA}$		- 0.7		V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -10 \text{ V}, I_E = 0$			- 0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -20 \text{ V}, I_B = 0$			-100	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = -5 \text{ V}, I_C = 0$			-10	μΑ
Forward current transfer ratio *1	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

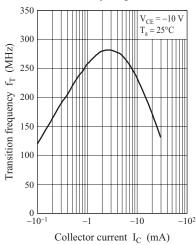
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *1: Rank classification

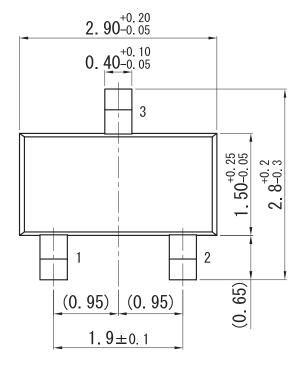
1. Humin viuoomvuuoom				
Code	В	С	0	
Rank	В	С	No-rank	
h _{FE}	70 to 140	110 to 220	70 to 220	
Marking Symbol	A4B	A4C	A4	

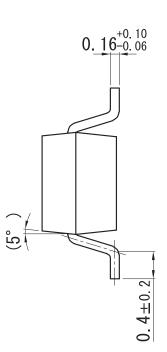
Product of no-rank is not classified and have no marking symbol for rank.

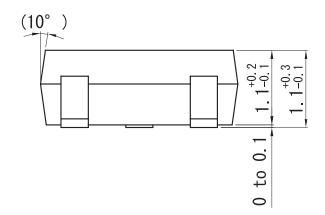




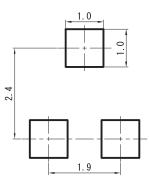
Mini3-G3-B







Land Pattern (Reference) (Unit: mm)



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