# **DSA3402**

### Silicon PNP epitaxial planar type

For low frequency amplification DSA9402 in SSSMini3 type package

#### ■ Features

- High forward current transfer ratio h<sub>FE</sub> with excellent linearity
- $\bullet$  Low collector-emitter saturation voltage  $V_{\text{CE(sat)}}$
- Halogen-free / RoHS compliant
   (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

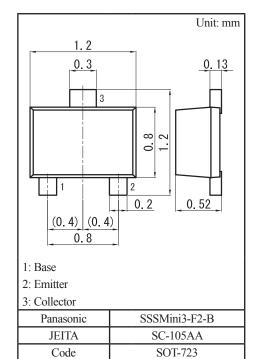
#### ■ Marking Symbol: B2

#### ■ Packaging

DSA340200L Embossed type (Thermo-compression sealing): 10 000 pcs / reel (standard)

#### ■ Absolute Maximum Ratings $T_a = 25$ °C

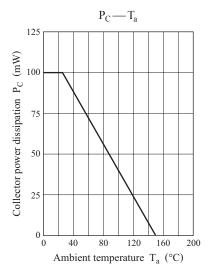
Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	-15	V	
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	-12	V	
Emitter-base voltage (Collector open)	$V_{EBO}$	-5	V	
Collector current	$I_{C}$	-500	mA	
Peak collector current	$I_{CP}$	-1	A	
Collector power dissipation	P <sub>C</sub>	100	mW	
Junction temperature	T <sub>j</sub>	150	°C	
Operating ambient temperature	T <sub>opr</sub>	-40 to +85	°C	
Storage temperature	T <sub>stg</sub>	-55 to +150	°C	

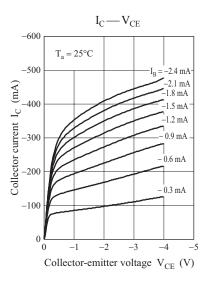


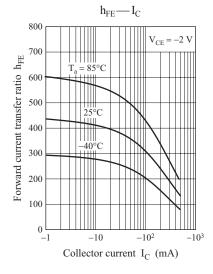
#### ■ Electrical Characteristics $T_a = 25$ °C±3°C

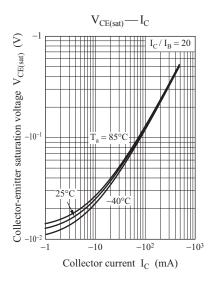
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	$I_{\rm C} = -10 \mu\text{A}, I_{\rm E} = 0$	-15			V
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	$I_{\rm C} = -1 \text{ mA}, I_{\rm B} = 0$	-12			V
Emitter-base voltage (Collector open)	V <sub>EBO</sub>	$I_E = -10 \mu A, I_C = 0$	-5			V
Collector-base cutoff current (Emitter open)	$I_{CBO}$	$V_{\rm CB} = -10 \text{ V}, I_{\rm E} = 0$			-0.1	μА
Forward current transfer ratio	$h_{\mathrm{FE}}$	$V_{CE} = -2 \text{ V}, I_{C} = -10 \text{ mA}$	270		680	_
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	$I_C = -200 \text{ mA}, I_B = -10 \text{ mA}$			-250	mV
Transition frequency	$f_T$	$V_{CE} = -2 \text{ V}, I_{C} = -10 \text{ mA}$		300		MHz
Collector output capacitance (Common base, input open circuited)	C <sub>ob</sub>	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		4.0		pF

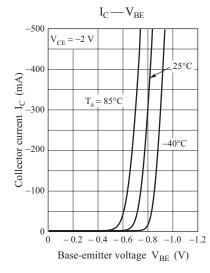
Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

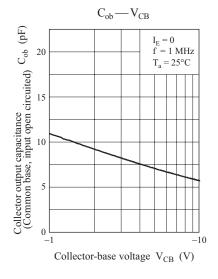


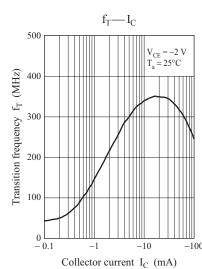








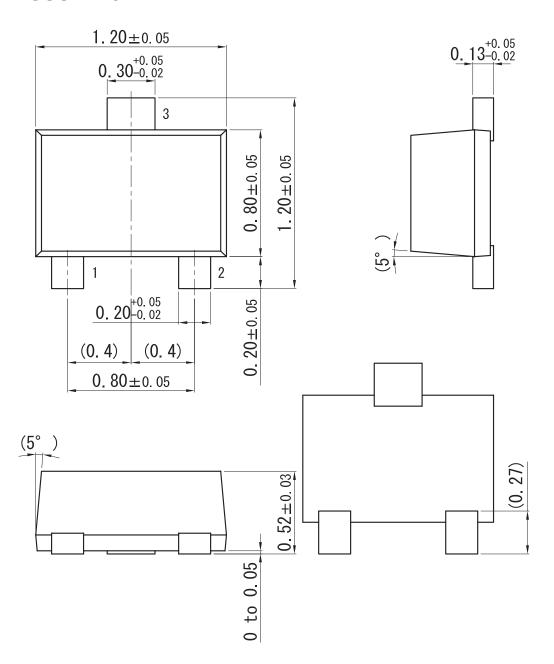




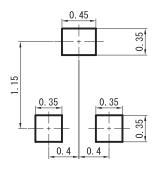
Ver. CED 2

## SSSMini3-F2-B

Unit: mm



#### ■ Land Pattern (Reference) (Unit: mm)



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