DSA7506

Silicon PNP epitaxial planar type

For low frequency amplification

■ Features

- \bullet Low collector-emitter saturation voltage $V_{\text{CE(sat)}}$
- Halogen-free / RoHS compliant
 (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

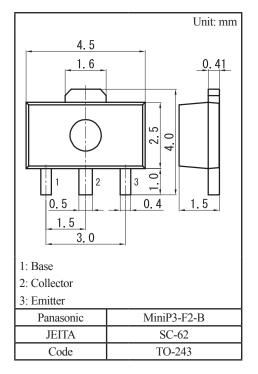
■ Marking Symbol: 4LR

Packaging

DSA7506R0L Embossed type (Thermo-compression sealing): 1 000 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}	-25	V
Emitter-base voltage (Collector open)	V_{EBO}	-11	V
Collector current	I_{C}	-3	A
Peak collector current *1	I_{CP}	-10	A
Collector power dissipation *2	P _C	1	W
Junction temperature	T_j	150	°C
Operating ambient temperature	T _{opr}	-40 to +85	°C
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}	$I_C = -10 \mu A, I_E = 0$	-30			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_C = -1 \text{ mA}, I_B = 0$	-25			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = -10 \mu\text{A}, I_C = 0$	-11			V
Forward current transfer ratio *1,2	h _{FE}	$V_{CE} = -2 \text{ V}, I_{C} = -1.4 \text{ A}$	130		450	_
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_C = -1.4 \text{ A}, I_B = -25 \text{ mA}$		- 0.2	-0.27	V
Transition frequency	f_T	$V_{CE} = -6 \text{ V}, I_{C} = -50 \text{ mA}$		150		MHz
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$			85	pF

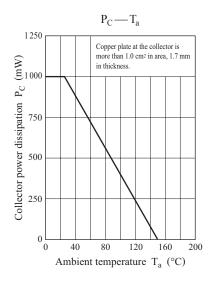
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

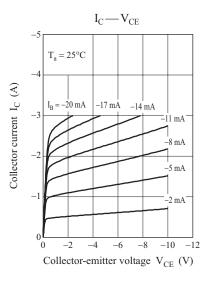
Note) *1: Pulse width ≤ 1ms, Single pulse

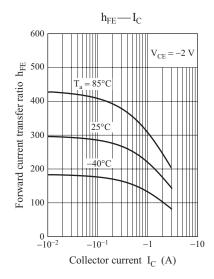
^{*2:} Printed circuit board: Copper foil area of 1 cm² or more, and the board thickness of 1.7 mm for the collector portion

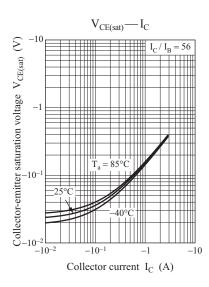
^{2. *1:} Pulse measurement

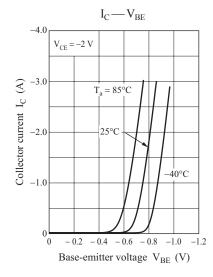
^{*2:} Rank classification: Only R rank producing.

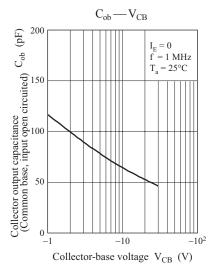


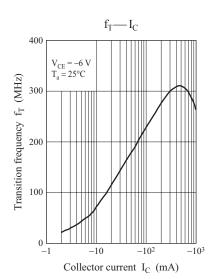








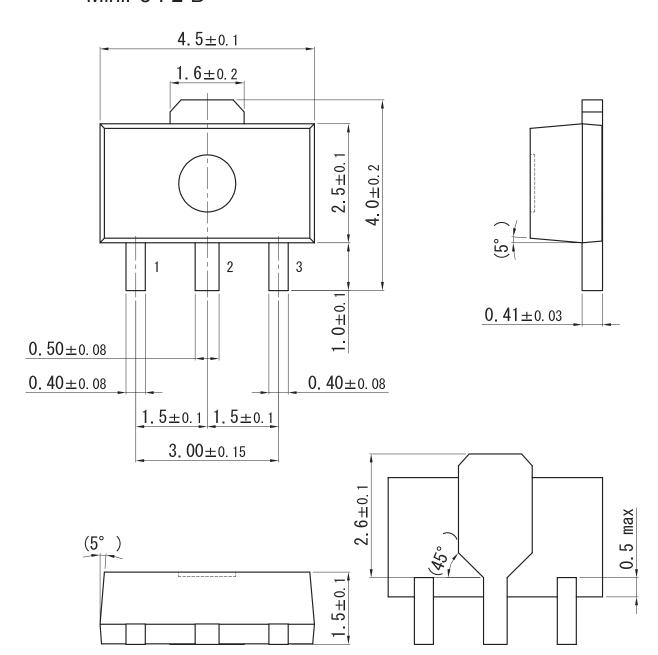




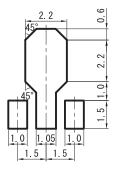
Ver. BED 2

MiniP3-F2-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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