DSA7506

Silicon PNP epitaxial planar type

For low frequency amplification

Features

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

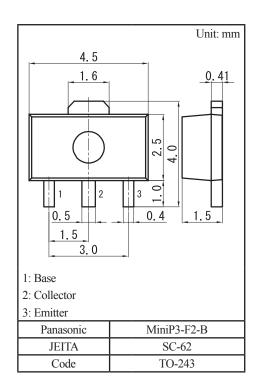
Marking Symbol: 4LR

Packaging

DSA7506R0L Embossed type (Thermo-compression sealing): 1000 pcs / reel (standard)

Absolute Maximum Ratings $T_a = 25^{\circ}C$

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	А	
Peak collector current *1	I _{CP}	-10	А	
Collector power dissipation *2	P _C	1	W	
Junction temperature	Tj	150	°C	
Operating ambient temperature	T _{opr}	-40 to +85	°C	
Storage temperature	T _{stg}	-55 to +150	°C	



Note) *1: Pulse width \leq 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

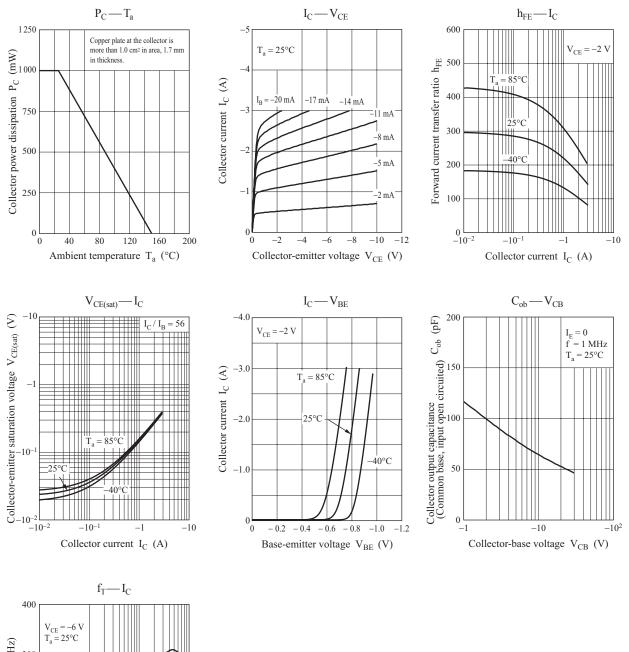
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

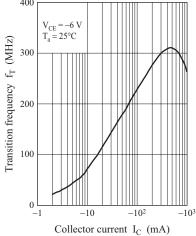
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \ \mu {\rm A}, I_{\rm E} = 0$	-30			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -1 {\rm mA}, I_{\rm B} = 0$	-25			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = -10 \ \mu A, I_{\rm C} = 0$	-11			V
Forward current transfer ratio *1, 2	h _{FE}	$V_{CE} = -2 V, I_C = -1.4 A$	130		450	
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_{\rm C} = -1.4 \text{A}, I_{\rm B} = -25 \text{mA}$		- 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.

2. *1: Pulse measurement

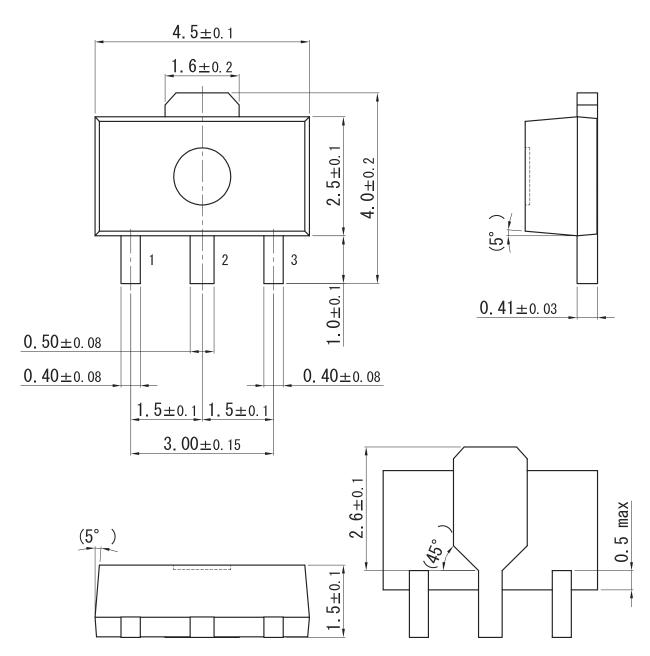
*2: Rank classification: Only R rank producing.



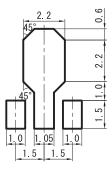


MiniP3-F2-B

Unit: mm



Land Pattern (Reference) (Unit: mm)



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