Package

NS-B2-B-B

• Pin Name

1: Emitter

2: Collector 3: Base

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Package dimension clicks here. \rightarrow

Code

DRA4114T

Silicon PNP epitaxial planar type

For digital circuits Complementary to DRC4114T DRA2114T in NS through hole type package

Features

- \bullet High forward current transfer ratio h_{FE} with excellent linearity
- Low collector-emitter saturation voltage V_{CE(sat)}
- Contributes to miniaturization of sets, mount area reduction
- Eco-friendly Halogen-free package

Packaging

DRA4114T0A Radial type: 5000 pcs / carton

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

Parameter	Symbol	Rating	Unit	Marking Symbol: LD
Collector-base voltage (Emitter open)	V _{CBO}	-50	V	Internal Connection
Collector-emitter voltage (Base open)	V _{CEO}	-50	V	R ₁ C
Collector current	I _C	-100	mA	Bott
Total power dissipation	P _T	300	mW	└──oE
Junction temperature	Tj	150	°C	$\frac{1}{10} \frac{10}{10} \frac{10}$
Storage temperature	T _{stg}	-55 to +150	°C	

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}	$I_{\rm C} = -10 \mu {\rm A}, I_{\rm E} = 0$	-50			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -2 {\rm mA}, I_{\rm B} = 0$	-50			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -50 \text{ V}, I_E = 0$			- 0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{\rm CE} = -50$ V, $I_{\rm B} = 0$			- 0.5	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = -6 V, I_C = 0$			-0.01	mA
Forward current transfer ratio	h _{FE}	$V_{\rm CE} = -10$ V, $I_{\rm C} = -5$ mA	160		460	
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = -0.5 \text{ mA}$			-0.25	V
Input voltage (ON)	V _{I(on)}	$V_{CE} = -0.2 \text{ V}, I_C = -5 \text{ mA}$	-1.2			V
Input voltage (OFF)	V _{I(off)}	$V_{CE} = -5 \text{ V}, I_C = -100 \mu\text{A}$			- 0.4	V
Input resistance	R ₁		-30%	10	+30%	kΩ

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

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