DRA4114E (Tentative)

Silicon PNP epitaxial planar type

For digital circuits

Packaging

Radial type: 5000 pcs / carton

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

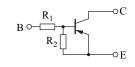
Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	-50	V	
Collector-emitter voltage (Base open)	V _{CEO}	-50	V	
Collector current	I _C	-100	mA	
Total power dissipation	P _T	300	mW	
Junction temperature	Tj	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

Package

- Code
- NS-B1-B
- Pin Name 1: Emitter
 - 2: Collector
 - 3: Base

Marking Symbol: LB

Internal Connection



Resistance	R ₁	10	kΩ
value	R ₂	10	kΩ

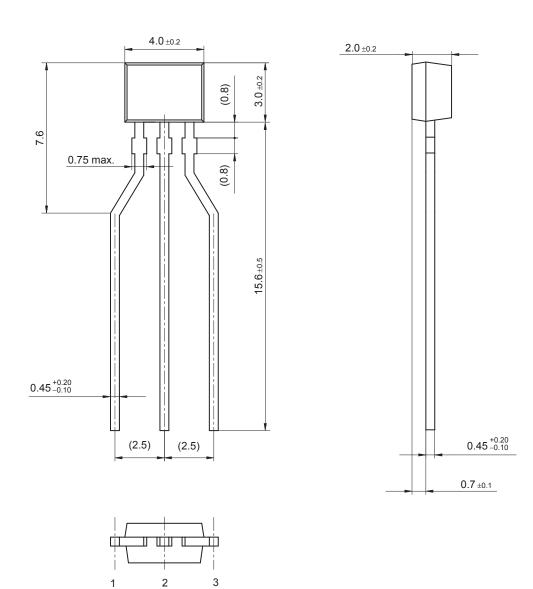
$\blacksquare Electrical Characteristics T_a = 25^{\circ}C \pm 3^{\circ}C$

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}	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-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}	$V_{\rm EB} = -6$ V, $I_{\rm C} = 0$			- 0.5	mA
Forward current transfer ratio	\mathbf{h}_{FE}	$V_{CE} = -10 \text{ V}, I_C = -5 \text{ mA}$	35			_
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)}	$V_{CE} = -0.2 \text{ V}, I_C = -5 \text{ mA}$	-2.1			V
Input voltage (OFF)	V _{I(off)}	$V_{CE} = -5 \text{ V}, I_C = -100 \mu\text{A}$			- 0.8	V
Input resistance	R ₁		-30%	10	+30%	kΩ
Resistance ratio	R_1/R_2		0.8	1.0	1.2	_

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

NS-B1-B

Unit: mm



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