DRC4114W

Silicon NPN epitaxial planar type

For digital circuits
DRC2114W in NS through hole type package

■ Features

- ullet Low collector-emitter saturation voltage $V_{\text{CE(sat)}}$
- Contributes to miniaturization of sets, mount area reduction
- Eco-friendly Halogen-free package

Packaging

DRC4114W0A Radial type: 5000 pcs / carton

■ Absolute Maximum Ratings $T_a = 25$ °C

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

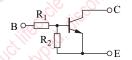
■ Package

• Code

NS-B2-B-B

Package dimension clicks here. \rightarrow

- Pin Name
 - 1: Emitter
 - 2: Collector
 - 3: Base
- Marking Symbol: N9
- Internal Connection



Resistance value	R ₁	10	kΩ
	R ₂	4.7	kΩ

■ Electrical Characteristics $T_a = 25$ °C±3°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}	$V_{\rm CB} = 50 \text{ V}, I_{\rm E} = 0$			0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = 50 \text{ V}, I_{B} = 0$			0.5	μΑ
Emitter-base cutoff current (Collector open)	I_{EBO}	$V_{EB} = 6 \text{ V}, I_{C} = 0$			1.0	mA
Forward current transfer ratio	h _{FE}	$V_{CE} = 10 \text{ V}, I_{C} = 5 \text{ mA}$	20			_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = 10 \text{ mA}, I_B = 0.5 \text{ mA}$			0.25	V
Input voltage (ON)	V _{I(on)}	$V_{CE} = 0.2 \text{ V}, I_{C} = 5 \text{ mA}$	3.0			V
Input voltage (OFF)	V _{I(off)}	$V_{CE} = 5 \text{ V}, I_{C} = 100 \mu\text{A}$			1.3	V
Input resistance	R_1		-30%	10.0	+30%	kΩ
Resistance ratio	R_1/R_2		1.70	2.13	2.60	

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

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