

# DRA9114T0L

## Silicon PNP epitaxial planar type

For digital circuits

Complementary to DRC9114T

DRA5114T in SSMini3 type package

### ■ Features

- High forward current transfer ratio hFE with excellent linearity
- Low collector-emitter saturation voltage  $V_{ce(sat)}$
- Halogen-free / RoHS compliant  
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

### ■ Marking Symbol: LD

### ■ Packaging

Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

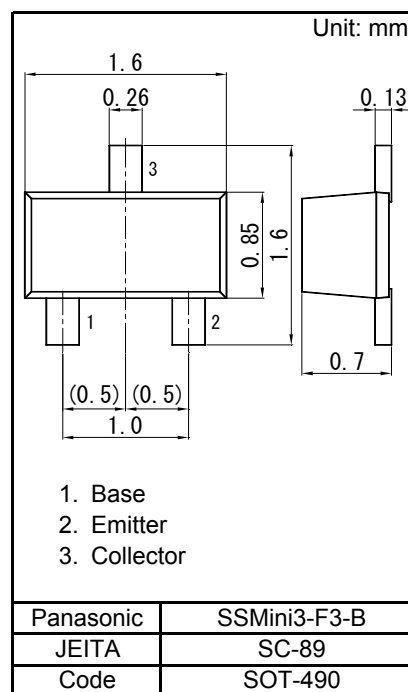
### ■ Absolute Maximum Ratings $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	VCBO	-50	V
Collector-emitter voltage (Base open)	VCEO	-50	V
Collector current	IC	-100	mA
Total power dissipation	PT	125	mW
Junction temperature	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C

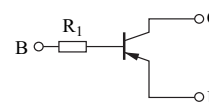
### ■ Electrical Characteristics $T_a = 25\text{ }^\circ\text{C} \pm 3\text{ }^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)	VCBO	IC = -10 $\mu\text{A}$ , IE = 0	-50			V
Collector-emitter voltage (Base open)	VCEO	IC = -2 mA, IB = 0	-50			V
Collector-base cutoff current (Emitter open)	ICBO	VCB = -50 V, IE = 0			-0.1	$\mu\text{A}$
Collector-emitter cutoff current (Base open)	ICEO	VCE = -50 V, IB = 0			-0.5	$\mu\text{A}$
Emitter-base cutoff current (Collector open)	IEBO	VEB = -6 V, IC = 0			-0.01	mA
Forward current transfer ratio	hFE	VCE = -10 V, IC = -5 mA	160		460	-
Collector-emitter saturation voltage	VCE(sat)	IC = -10 mA, IB = -0.5 mA			-0.25	V
Input voltage	Vi(on)	VCE = -0.2 V, IC = -5 mA	-1.2			V
	Vi(off)	VCE = -5 V, IC = -100 $\mu\text{A}$			-0.4	V
Input resistance	R1		-30%	10	+30%	k $\Omega$

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



### Internal Connection



Resistance value	R1	10	k $\Omega$
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