# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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# Contact us

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Transistors with Built-in Resistor DRC2144E0L

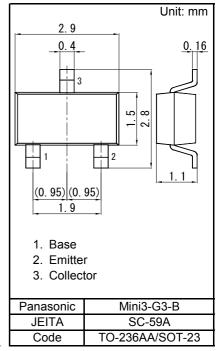
## DRC2144E0L Silicon NPN epitaxial planar type

For digital circuits Complementary to DRA2144E

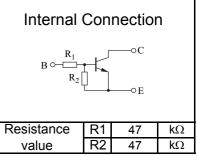
#### Features

- Low collector-emitter saturation voltage Vce(sat)
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: NL
- Packaging

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



Symbol	Rating	Unit
VCBO	50	V
VCEO	50	V
IC	100	mA
PT	200	mW
Tj	150	°C
Topr	-40 to +85	°C
Tstg	-55 to +150	°C
	VCBO VCEO IC PT Tj Topr	VCBO 50   VCEO 50   IC 100   PT 200   Tj 150   Topr -40 to +85



Electrical Characteristics	Ta = 25 °C ± 3 °C
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Absolute Maximum Ratings Ta = 25 °C

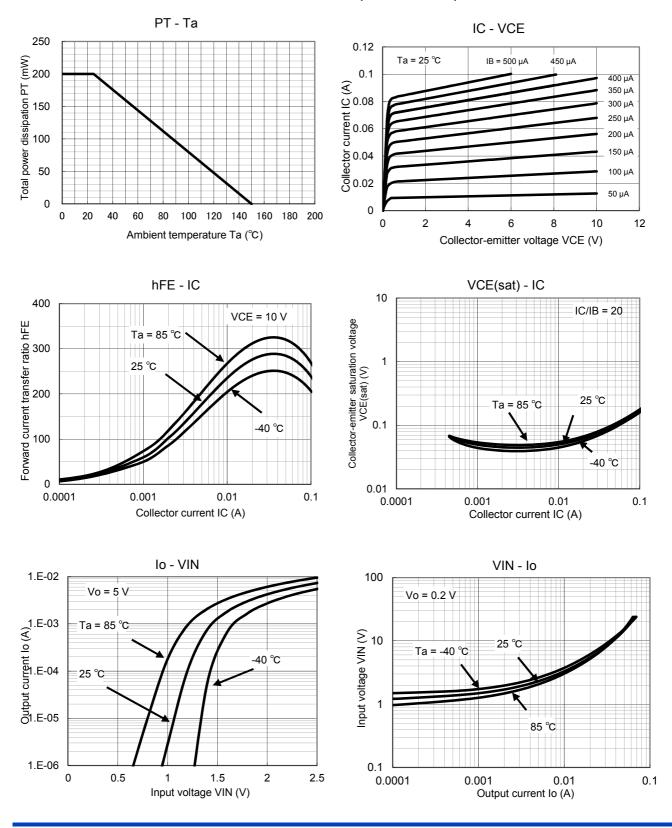
		0 111	B 4 '	-		
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	VCBO	IC = 10 μA, IE = 0	50			V
Collector-emitter voltage (Base open)	VCEO	IC = 2 mA, IB = 0	50			V
Collector-base cutoff current (Emitter open)	ICBO	VCB = 50 V, IE = 0			0.1	μA
Collector-emitter cutoff current (Base open)	ICEO	VCE = 50 V, IB = 0			0.5	μA
Emitter-base cutoff current (Collector open)	IEBO	VEB = 6 V, IC = 0			0.1	mA
Forward current transfer ratio	hFE	VCE = 10 V, IC = 5 mA	80			-
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	3.6			V
	Vi(off)	VCE = 5 V, IC = 100 µA			0.8	V
Input resistance	R1		-30%	47	+30%	kΩ
Resistance ratio	R1/R2		0.8	1.0	1.2	-

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

Transistors with Built-in Resistor DRC2144E0L



Technical Data (reference)



Page 2 of 3

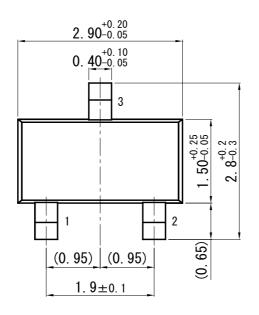
Established : 2009-10-30 Revised : 2014-03-13

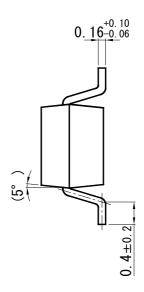


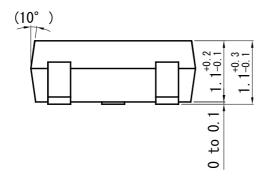
Transistors with Built-in Resistor DRC2144E0L

# Mini3-G3-B

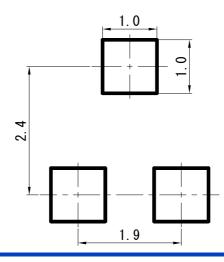
Unit: mm







Land Pattern (Reference) (Unit: mm)



Page 3 of 3

Established : 2009-10-30 Revised : 2014-03-13

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