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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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Transistors with Built-in Resistor

DRC3144E0L

DRC3144E0L

Panasonic

Silicon NPN epitaxial planar type

For digital circuits
Complementary to DRA3144E
DRC9144E in SSSMini3 type package

■ 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

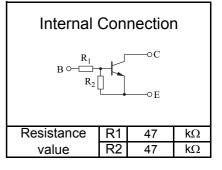
■ Packaging

Embossed type (Thermo-compression sealing): 10 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °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	100	mW
Junction temperature	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C

Unit: mm 1.2 0.3 0. 13 0. 2 0. 52 (0.4) (0.4) 0.8 1. Base 2. Emitter 3. Collector SSSMini3-F2-B Panasonic JEITA SC-105AA Code SOT-723



■ Electrical Characteristics Ta = 25 °C ± 3 °C

Established: 2009-10-13

: 2014-03-20

Revised

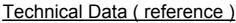
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	VCBO	IC = 10 μA, IE = 0	50			V
Collector-emitter voltage (Base open)	VCEO	IC = 2 mA, IB = 0	50			V
Collector-base cutoff current (Emitter open)	ICBO	VCB = 50 V, IE = 0			0.1	μΑ
Collector-emitter cutoff current (Base open)	ICEO	VCE = 50 V, IB = 0			0.5	μΑ
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	-

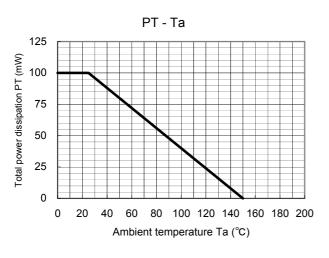
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 Measuring methods for transistors.

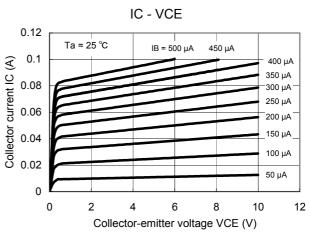
Panasonic

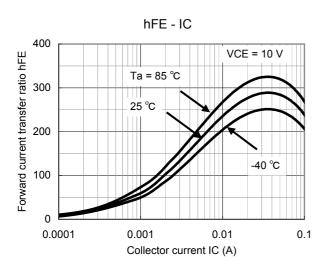
Transistors with Built-in Resistor

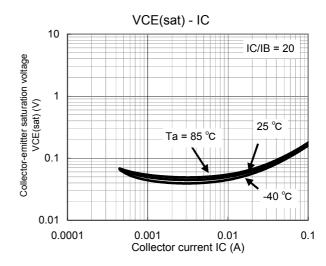
DRC3144E0L

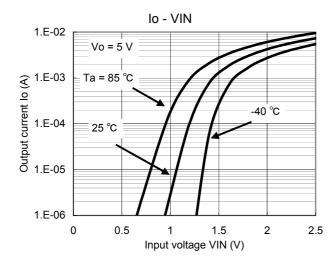


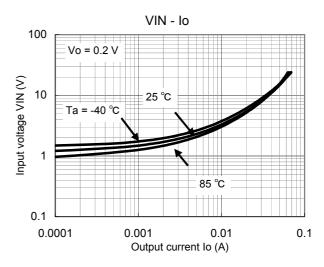












Established: 2009-10-13 : 2014-03-20

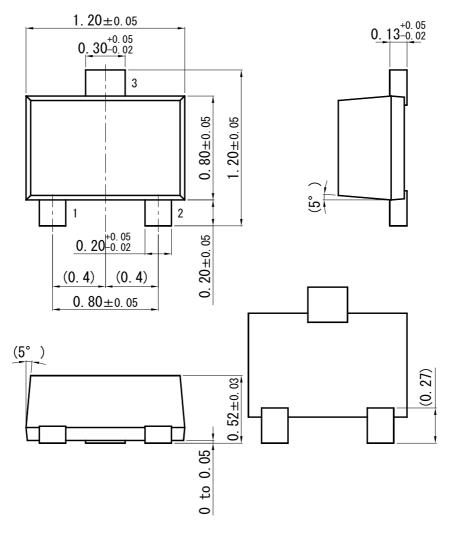
Transistors with Built-in Resistor

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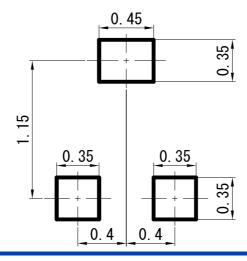
SSSMini3-F2-B

Panasonic

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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Established: 2009-10-13 Revised: 2014-03-20

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