

Transistors with Built-in Resistor DRC3152Z0L

DRC3152Z0L Silicon NPN epitaxial planar type

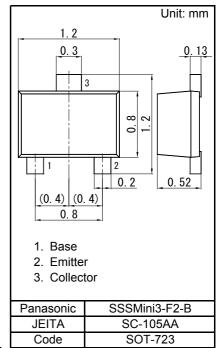
For digital circuits Complementary to DRA3152Z DRC9152Z in SSSMini3 type package

Features

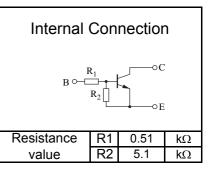
- Low collector-emitter saturation voltage Vce(sat)
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: N0

Packaging

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



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	О°
Operating ambient temperature	Topr	-40 to +85	О°
Storage temperature	Tstg	-55 to +150	°C



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

Absolute Maximum Ratings Ta = 25 °C

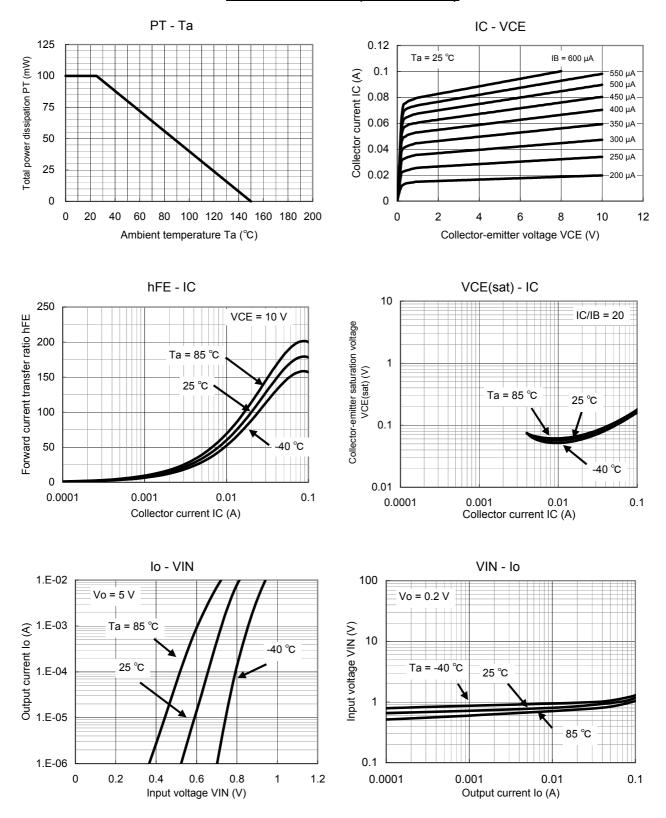
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	VCBO	IC = 10 μA, IE = 0	50			V
Collector-emitter voltage (Base open)	VCEO	IC = 2 mA, IB = 0	50			V
Collector-base cutoff current (Emitter open)	ICBO	VCB = 50 V, IE = 0			0.1	μA
Collector-emitter cutoff current (Base open)	ICEO	VCE = 50 V, IB = 0			0.5	μA
Emitter-base cutoff current (Collector open)	IEBO	VEB = 6 V, IC = 0			2.0	mA
Forward current transfer ratio	hFE	VCE = 10 V, IC = 5 mA	20			-
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	1.0			V
	Vi(off)	VCE = 5 V, IC = 100 µA			0.4	V
Input resistance	R1		-30%	0.51	+30%	kΩ
Resistance ratio	R1/R2		0.08	0.10	0.12	-

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

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Technical Data (reference)



Established : 2009-10-27 Revised : 2014-03-20



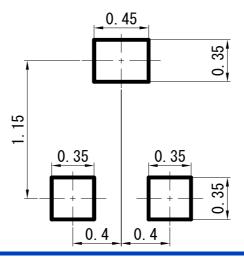
SSSMini3-F2-B

Transistors with Built-in Resistor DRC3152Z0L

Unit: mm

1.20 ± 0.05 0.13-0.02 **0. 30**^{+0. 05} 0. 02 3 0.80±0.05 1.20 ± 0.05 20 2 1 **0. 20**+0. 05 -0. 02 0.20 ± 0.05 (0.4) (0.4) 0.80 ± 0.05 (5°) 27) 52 ± 0.03 ġ o' 0 to 0.05

Land Pattern (Reference) (Unit: mm)



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