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.

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Transistors with Built-in Resistor DRA5143Z0L

DRA5143Z0L Silicon PNP epitaxial planar type

For digital circuits Complementary to DRC5143Z DRA2143Z in SMini3 type package

Features

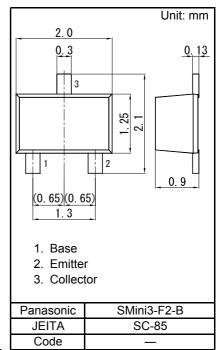
- High forward current transfer ratio hFE
- · Low collector-emitter saturation voltage Vce(sat)

Absolute Maximum Ratings Ta = 25 °C

- Halogen-free / RoHS compliant
 (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: L8

Packaging

Embossed type (Thermo-compression sealing): 3 000 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	150	mW
Junction temperature	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C

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

		Canditiana	Min	T. m	Max	1.1	
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			-0.2	mA	
Forward current transfer ratio	hFE	VCE = -10 V, IC = -5 mA	80		400	-	
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	-1.3			V	
	Vi(off)	VCE = -5 V, IC = -100 µA			-0.4	V	
Input resistance	R1		-30%	4.7	+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.

Panasonic

Transistors with Built-in Resistor DRA5143Z0L

IB = -600 μA

-500 µA

-400 µA

-300 µA

-200 µA

-100 µA

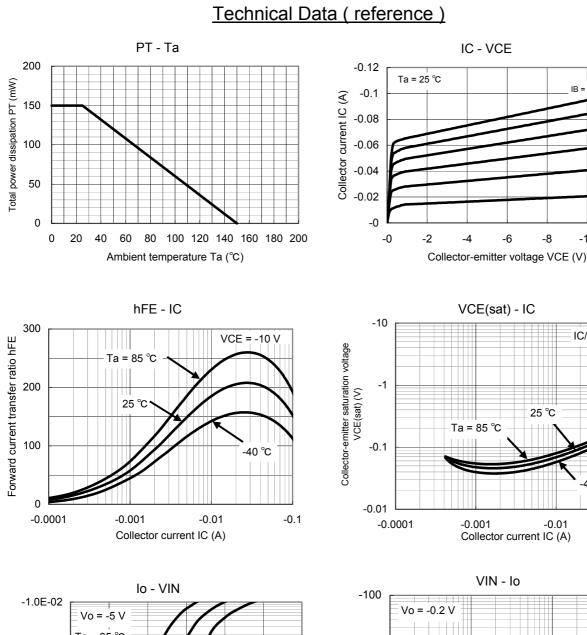
-12

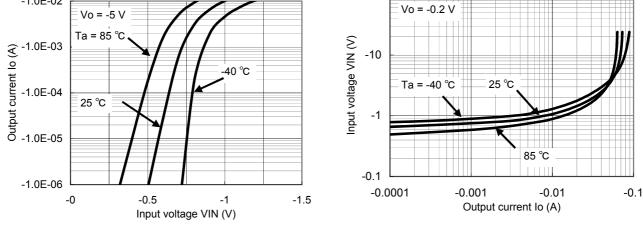
-10

IC/IB = 20

-40 °C

-0.1





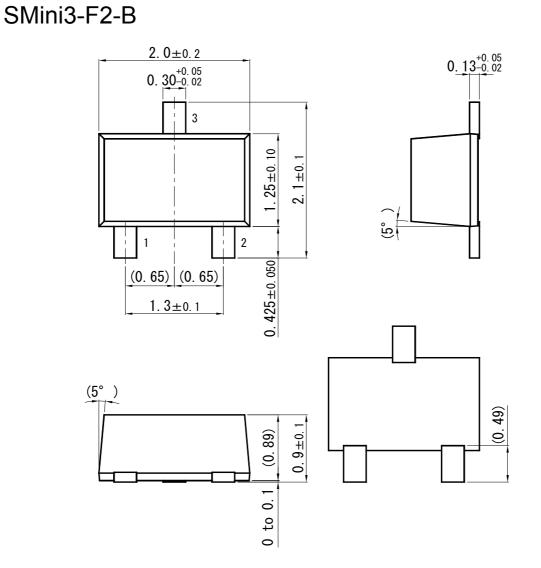
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Established : 2009-10-15 Revised : 2014-02-21

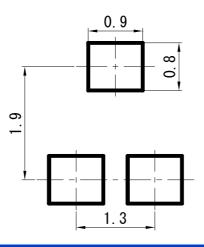


Transistors with Built-in Resistor DRA5143Z0L

Unit: mm



Land Pattern (Reference) (Unit: mm)



Established : 2009-10-15 Revised : 2014-02-21

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