

	<h1>Tentative</h1>	DRC4143X	
		Total pages	page

DRC4143X

Silicon NPN epitaxial planar type

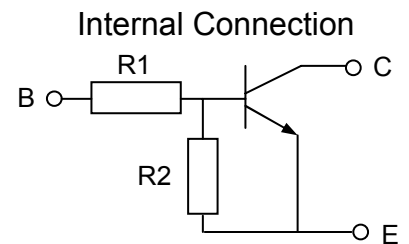
For digital circuits

Marking Symbol : N6

Package Code : NS-B1-B-B

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	300	mW
Junction temperature	Tj	150	$^\circ\text{C}$
Storage temperature	Tstg	-55 to +150	$^\circ\text{C}$



Resistance value	R1	4.7	k Ω
	R2	10	k Ω
Pin name	1.	Emitter	
	2.	Collector	
	3.	Base	

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 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			1.0	mA
Forward current transfer ratio	hFE	VCE = 10 V, IC = 5 mA	30			-
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	1.7			V
	Vi(off)	VCE = 5 V, IC = 100 μA			0.6	V
Input resistance	R1		-30%	4.7	+30%	k Ω
Resistance ratio	R1/R2		0.37	0.47	0.57	-

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

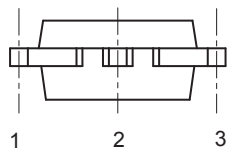
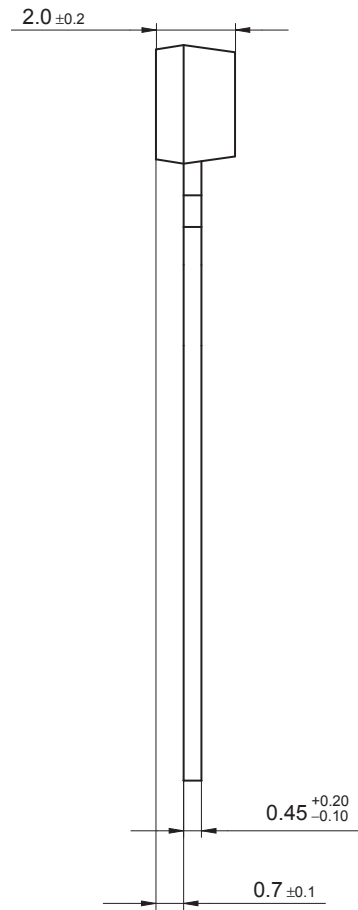
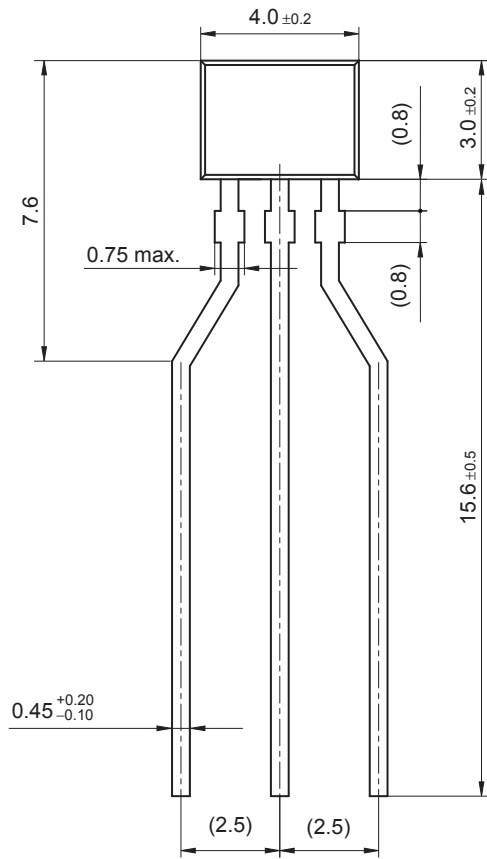
Packing

Radial type : 5 000 pcs / carton

2010.2.22	2010.8.17	
Prepared	Revised	

NS-B1-B-B

Unit: mm



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