

	<h1>Tentative</h1>	DRC4543E	
		Total pages	page

DRC4543E

Silicon NPN epitaxial planar type

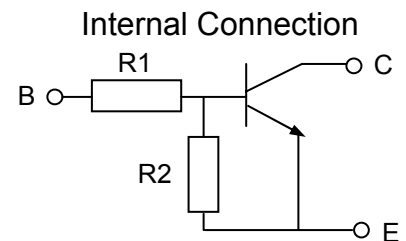
For digital circuits

Marking Symbol : TK

Package Code : NS-B1-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	500	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	4.7	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			1	μA
Collector-emitter cutoff current (Base open)	ICEO	VCE = 50 V, IB = 0			1	μA
Emitter-base cutoff current (Collector open)	IEBO	VEB = 6 V, IC = 0			2	mA
Forward current transfer ratio	hFE	VCE = 10 V, IC = 100 mA	50			-
Collector-emitter saturation voltage	VCE(sat)	IC = 100 mA, IB = 5 mA			0.25	V
Input voltage	Vi(on)	VCE = 0.2 V, IC = 50 mA	3.6			V
	Vi(off)	VCE = 5 V, IC = 100 μA			0.7	V
Input resistance	R1		-30%	4.7	+30%	k Ω
Resistance ratio	R1/R2		0.8	1.0	1.2	-

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

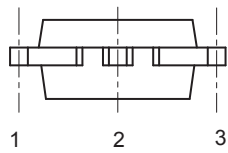
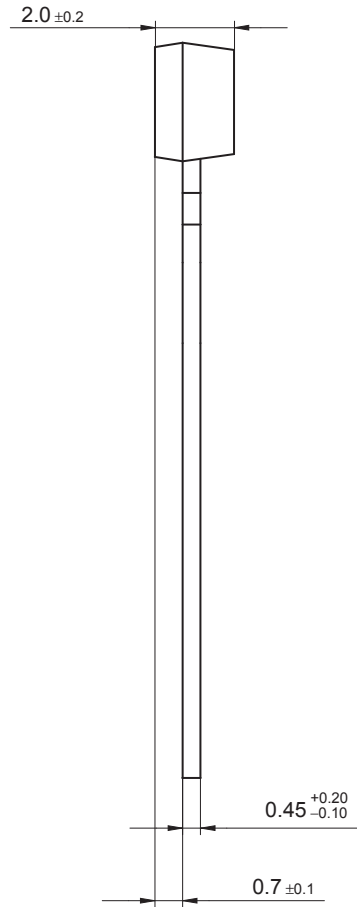
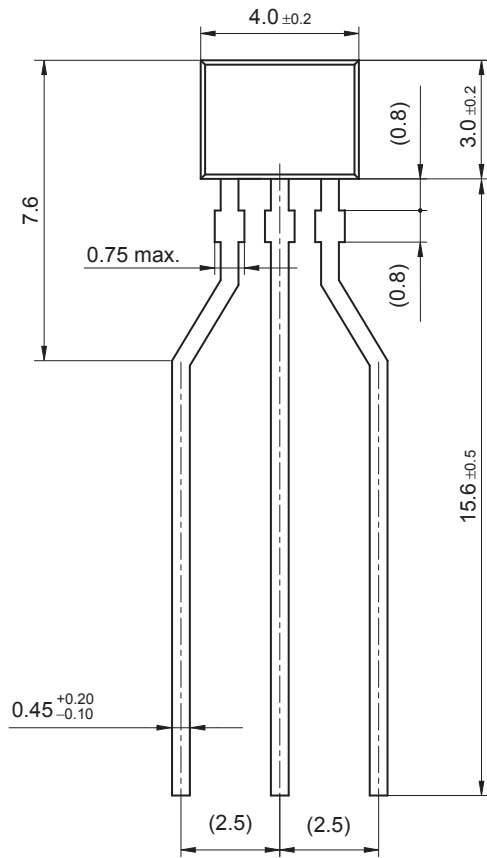
Packing

Radial type : 5000pcs / 1carton

2010.2.23		
Prepared	Revised	

NS-B1-B

Unit: mm



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