

RA101C/RC101C

Switching Applications (with Bias Resistances)

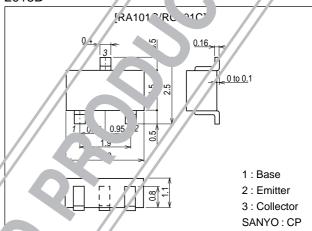
Features

- · On-chip bias resistances (R1=47k Ω , R2=47k Ω).
- · Compact package (CP).

Package Dimensions

unit:mm

2018B



(): RA101C

Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCPO		(-)50	V
Collector-to-Emitter Voltage	VCEO		(-)50	V
Emitter-to-Base Voltage	V _E BO		(–)10	V
Input Voltage	V _{IN}		(-)40	V
Collector Current	Ic	- //	(-)100	mA
Collector Current (Pulse)	Ico		(-)200	mA
Collector Dissipation	Pc Pc		200	mW
Junction Temperature	Ti	//	150	°C
Storage Temperature	Tsi	//	-55 to +150	°C

Electrical Characteristics at Ta = 25

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	0,
Collector Cutoff Current	I _{CBO} /	V _{CB} =(-)40V, I _E =0			(-)0.1	μA
	ICE/3	V _{CE} =(-)40V, I _B =0			(–)0.5	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)5V, I _C =0	(-)30	(-)53	(–)80	μA
DC Current Gain	h/FE	V _{CE} =(-)5V, I _C =(-)5mA	50			
Gain-Bandwidth, Product	fT	V _{CE} =(-)10V, I _C =(-)5mA		250		MHz
				(200)		MHz
Output Capacitance	Cob	$V_{CB}=(-)10V$, f=1MHz		3.5		pF
				(5.3)		pF

Marking . RA10' : 01A, C101C : 0'.C

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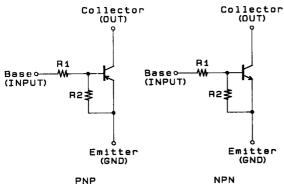
SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquaters

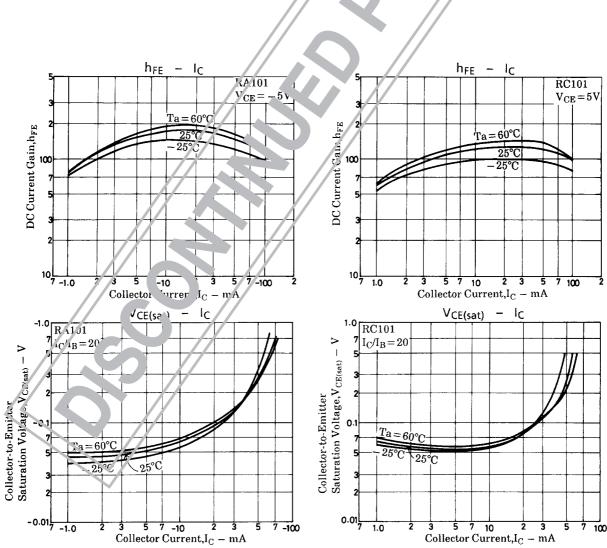
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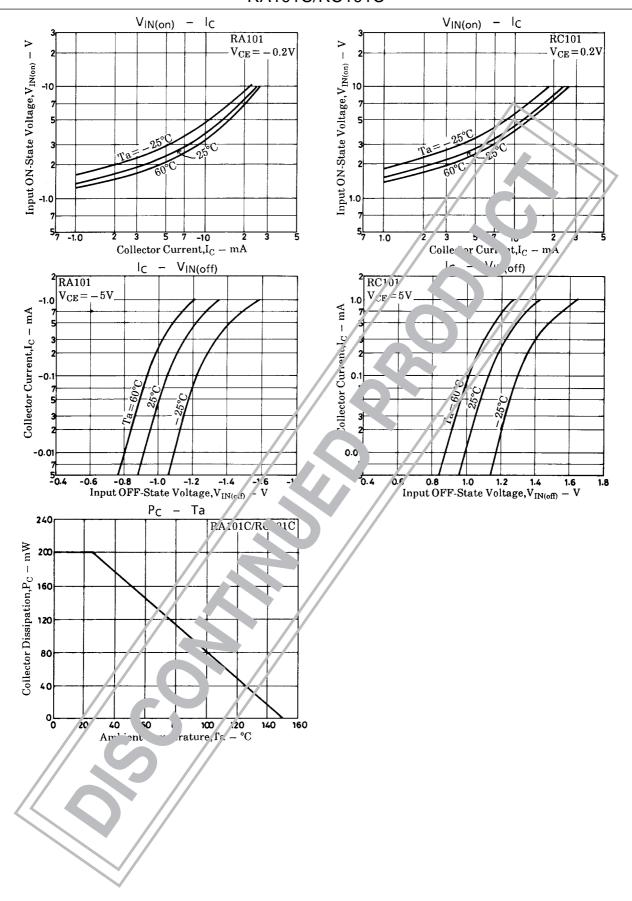
Parameter	Symbol	Conditions		Unit		
Falanielei			min	typ	max	Offic
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =(-)5mA, I _B =(-)0.25mA		(-)0.1	(-)0.3	V
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =(-)10μΑ, I _E =0	(-)50			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =(-)100μA, R _{BE} =∞	(-)50			V
Input OFF-State Voltage	V _{IN(off)}	V _{CE} =(-)5V, I _C =(-)100μA	(-)/J.8	(-)11	(–)1.5	V
Input ON-State Voltage	V _{IN(on)}	V _{CE} =(-)0.2V, I _C =(-)5mA	(–)1.0	(-)2.5	(–)5.0	V
Input Resistance	R1		32	47	62	kΩ
Resistance Ratio	R1/R2			1.0		

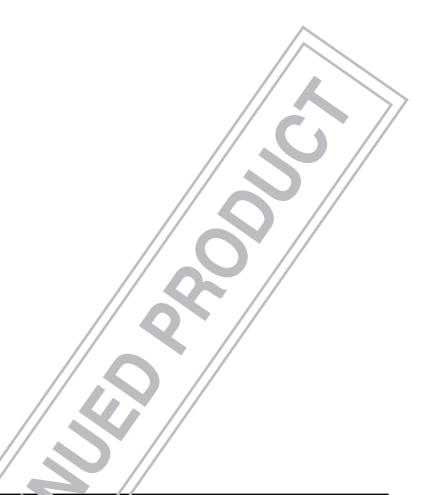
Electrical Connection





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