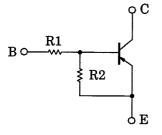
TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

RN2907, RN2908, RN2909

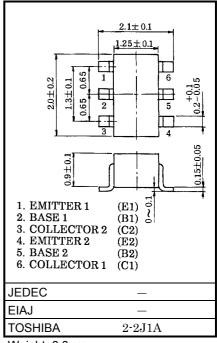
Switching, Inverter Circuit, Interface Circuit And Driver Circuit Applications

- Including two devices in US6 (ultra super mini type with 6 leads)
- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- Complementary to RN1907~1909

Equivalent Circuit and Bias Resistor Values

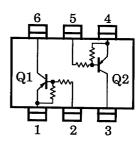


Type No.	R1 (kΩ)	R2 (kΩ)
RN2907	10	47
RN2908	22	47
RN2909	47	22

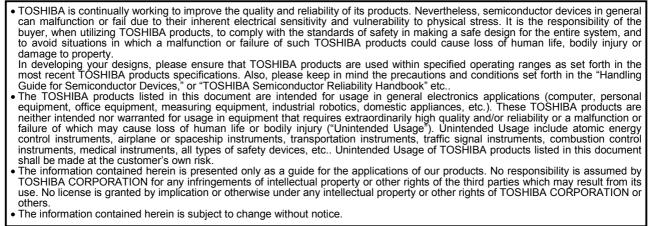


Weight: 6.8 mg

Equivalent Circuit (Top View)



000707EAA1



Unit in mm

Maximum Ratings (Ta = 25°C) (Q1, Q2 Common)

Characterist	lic	Symbol	Rating	Unit	
Collector-base voltage	RN2907~2909	V _{CBO}	-50	V	
Collector-emitter voltage	RN2907-2909	V _{CEO}	-50	V	
	RN2907		-6	V	
Emitter-base voltage	RN2908	V _{EBO}	-7		
	RN2909		-15		
Collector current		Ι _C	-100	mA	
Collector power dissipation	RN2907~2909	P _C *	200	mW	
Junction temperature	1112307-2303	Tj	150	°C	
Storage temperature range		T _{stg}	-55~150	°C	

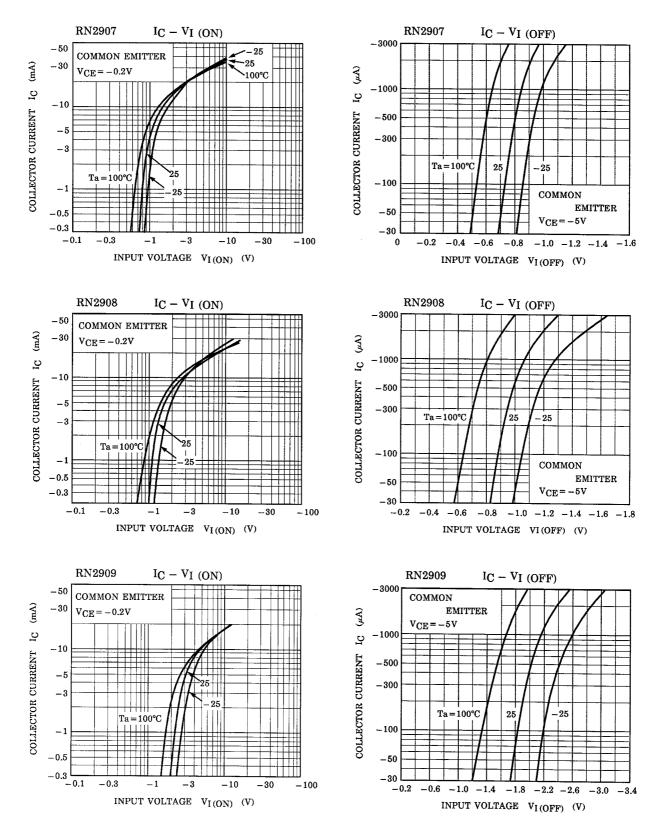
* : Total rating

Electrical Characteristics (Ta = 25°C) (Q1, Q2 Common)

Charact	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit	
Collector cut-off	RN2907~2909	I _{CBO}	_	$V_{CB} = -50V, I_E = 0$	_		-100	nA
current		I _{CEO}	_	$V_{CE} = -50V, I_B = 0$	-	_	-500	nA
	RN2907		_	$V_{EB} = -6V, I_C = 0$	-0.081	_	-0.15	
Emitter cut-off current	RN2908	I _{EBO}	_	V _{EB} = -7V, I _C = 0	-0.078	_	-0.145	mA
	RN2909		_	V _{EB} = −15V, I _C = 0	-0.167	_	-0.311	
	RN2907	h _{FE}	_	V _{CE} = -5V, I _C = -10mA	80	_	—	
DC current gain	RN2908		_		80	_	—	
	RN2909		_		70	_	—	
Collector-emitter saturation voltage	RN2907~2909	V _{CE (sat)}	_	I _C = −5mA, I _B = −0.25mA	_	-0.1	-0.3	V
	RN2907	V _{I (ON)}	_	V _{CE} = -0.2V, I _C = -5mA	-0.7	_	-1.8	V
Input voltage (ON)	RN2908		_		-1.0		-2.6	
	RN2909		_		-2.2	_	-5.8	
	RN2907	V _{I (OFF)}	_	V _{CE} = -5V, I _C = -0.1mA	-0.5	_	-1.0	V
Input voltage (OFF)	RN2908		_		-0.6	_	-1.16	
	RN2909		_		-1.5	_	-2.6	
Translation frequency	RN2907~2909	f _T	_	V _{CE} = -10V, I _C = -5mA	_	200	—	MHz
Collector output capacitance	RN2907~2909	C _{ob}	_	V _{CB} = -10V, I _E = 0, f = 1MHz	_	3	6	pF
	RN2907		_		7	10	13	
Input resistor	RN2908	R1	_	_	15.4	22	28.6	kΩ
	RN2909		_		32.9	47	61.1	
	RN2907		—		0.191	0.213	0.232	
Resistor ratio	RN2908	R1/R2	_	_	0.421	0.468	0.515	_
	RN2909		_		1.92	2.14	2.35	

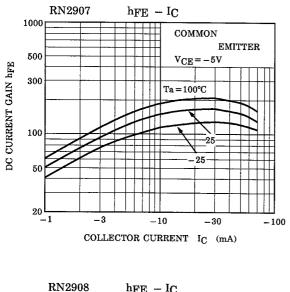
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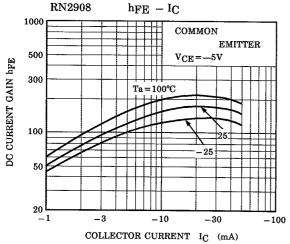
(Q1, Q2 Common)

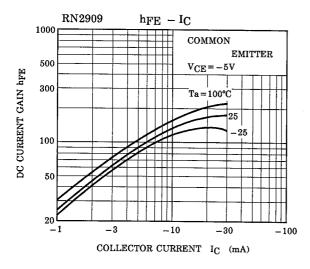


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(Q1, Q2 Common)







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Type Name	Marking	
RN2907	Type Name YH	
RN2908	Type Name YI BBB	
RN2909	Type Name YJ UUU	