Unit in mm

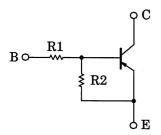
TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

RN2607,RN2608,RN2609

Switching, Inverter Circuit, Interface Circuit And Driver Circuit Applications

- Including two devices in SM6 (super mini type with 6 leads)
- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- Complementary to RN1607~RN1609

Equivalent Circuit and Bias Resistor Values



Type No.	R1 (kΩ)	R2 (kΩ)
RN2607	10	47
RN2608	22	47
RN2609	47	22

1. EMITTER 1 (E1)
2. BASE 1 (B1)
3. COLLECTOR 2 (C2)
4. EMITTER 2 (E2)
5. BASE 2 (B2)
6. COLLECTOR 1 (C1)

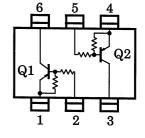
Weight: 0.015g

JEDEC EIAJ TOSHIBA

Eauivalent Circuit (Top View)

Maximum Ratings (Ta = 25°C)

Characteris	Symbol	Rating	Unit		
Collector-base voltage	RN2607~RN2609	V_{CBO}	-50	V	
Collector-emitter voltage	RN2007~RN2009	V _{CEO}	-50	V	
	RN2607		-6	٧	
Emitter-base voltage	RN2608	V_{EBO}	-7		
	RN2609		-15		
Collector current		IC	-100	mA	
Collector power dissipation		P _C *	300	mW	
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	-55~150	°C	



2-3N1A

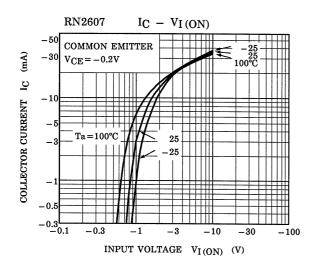
^{*} Total rating

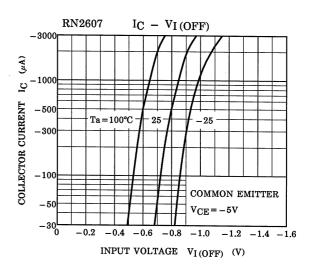
Electrical Characteristics (Ta = 25°C) (Q1, Q2 Common)

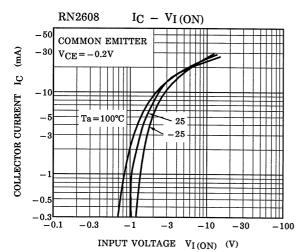
Characteristic		Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	RN2607~RN2609	I _{CBO}	-	$V_{CB} = -50V, I_{E} = 0$	_	1	-100	nA
	RN2007~RN2009	I _{CEO}	_	$V_{CE} = -50V, I_B = 0$	_	_	-500	nA
Emitter cut-off current	RN2607	I _{EBO}	_	$V_{EB} = -6V, I_C = 0$	-0.081	_	-0.15	mA
	RN2608		_	$V_{EB} = -7V, I_C = 0$	-0.078	_	-0.145	
	RN2609		_	V _{EB} = -15V, I _C = 0	-0.167	_	-0.311	
	RN2607	h _{FE}	_	V _{CE} = -5V, I _C = -10mA	80	_	_	_
DC current gain	RN2608		_		80	_	_	
	RN2609		_		70	_	_	
Collector-emitter saturation voltage	RN2607~RN2609	V _{CE} (sat)	_	I _C = -5mA, I _B = -0.25mA	_	-0.1	-0.3	V
Input voltage (ON)	RN2607	V _{I (ON)}	_	V _{CE} = -0.2V, I _C = -5mA	-0.7	_	-1.8	V
	RN2608		_		-1.0	_	-2.6	
	RN2609		_		-2.2	_	-5.8	
	RN2607	V _{I (OFF)}	_	V _{CE} = -5V, I _C = -0.1mA	-0.5	_	-1.0	V
Input voltage (OFF)	RN2608		_		-0.6	_	-1.16	
	RN2609		_		-1.5	_	-2.6	
Translation frequency	RN2607~RN2609	f _T	_	V _{CE} = -10V, I _C = -5mA	_	200	_	MHz
Collector output capacitance	RN2607~RN2609	C _{ob}	_	V _{CB} = -10V, I _E = 0 f = 1MHz	_	3	6	pF
Input resistor	RN2607	R1	_	_	7	10	13	kΩ
	RN2608		_		15.4	22	28.6	
	RN2609		_		32.9	47	61.1	
Resistor ratio	RN2607	R1/R2	_	_	0.191	0.213	0.232	_
	RN2608		_		0.421	0.468	0.515	
	RN2609		_		1.92	2.14	2.35	

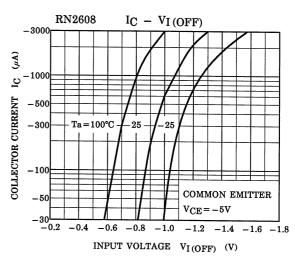
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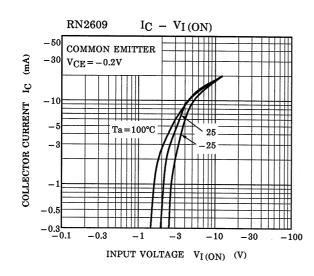
(Q1, Q2 Common)

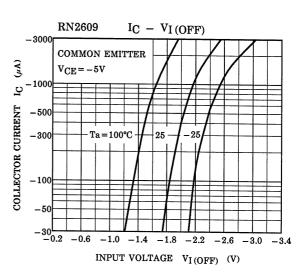






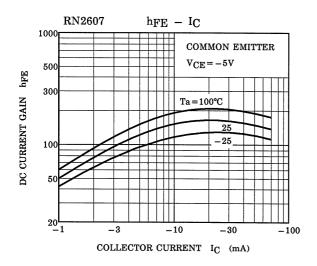


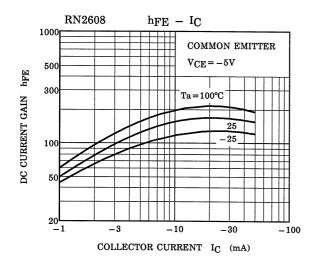


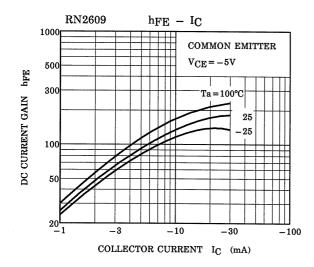


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(Q1, Q2 Common)







Type Name	Marking
RN2607	Type Name Y H
RN2608	Type Name YI
RN2609	Type Name Y J

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