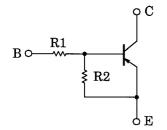
TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

RN2607, RN2608, RN2609

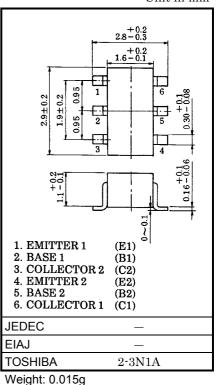
Switching, Inverter Circuit, Interface Circuit And Driver Circuit Applications

- 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



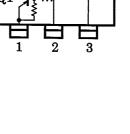
Type No.	R1 (kΩ)	R2 (kΩ)
RN2607	10	47
RN2608	22	47
RN2609	47	22



Eauivalent Circuit (Top View)

Characteris	tic	Symbol	Rating	Unit	
Collector-base voltage	RN2607~RN2609	V _{CBO}	-50	V	
Collector-emitter voltage	1112007 1112003	V _{CEO}	-50	V	
	RN2607		-6	V	
Emitter-base voltage	RN2608	V _{EBO}	-7		
	RN2609		-15		
Collector current		Ι _C	-100	mA	
Collector power dissipation		P _C *	300	mW	
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	-55~150	°C	

Maximum Ratings (Ta = 25°C)



ດ2

* Total rating

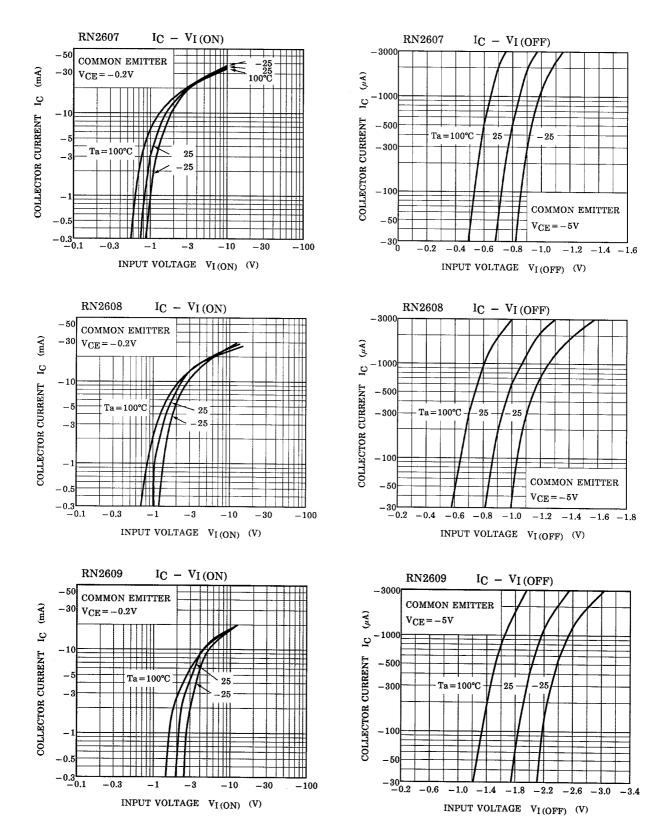
Unit in mm

TOSHIBA

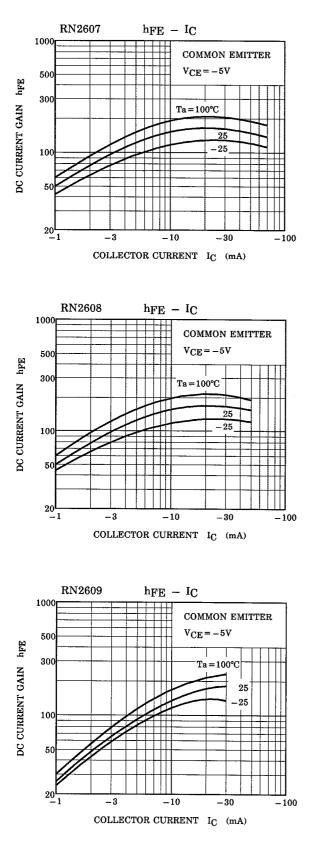
Electrical Characteristics (Ta = 25°C) (Q1, Q2 Common)

Characteristic		Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Collector cut-off	RN2607~RN2609	I _{CBO}	_	$V_{CB} = -50V, I_E = 0$	—	_	-100	nA
current		I _{CEO}		V _{CE} = -50V, I _B = 0	—	_	-500	nA
	RN2607	I _{EBO}	_	$V_{EB} = -6V, I_C = 0$	-0.081	—	-0.15	mA
Emitter cut-off current	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
	RN2607	V _{I (ON)}	_	V _{CE} = −0.2V, I _C = −5mA	-0.7	_	-1.8	V
Input voltage (ON)	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
	RN2607	R1		_	7	10	13	kΩ
Input resistor	RN2608		_		15.4	22	28.6	
	RN2609		_		32.9	47	61.1	
	RN2607	R1/R2	—		0.191	0.213	0.232	
Resistor ratio	RN2608		_		0.421	0.468	0.515	
	RN2609		_		1.92	2.14	2.35	

(Q1, Q2 Common)



(Q1, Q2 Common)



TOSHIBA

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

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Handbook" etc.,

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