

RA107S...RA109S

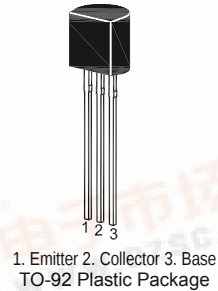
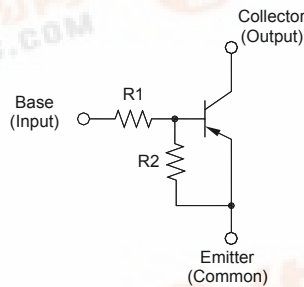
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PNP Silicon Epitaxial Planar Transistor

for switching, interface circuit and drive circuit applications

Features

- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process



Resistor Values

Type	R1 (K Ω)	R2 (K Ω)
RA107S	10	47
RA108S	22	47
RA109S	47	22

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Output Voltage	$-V_o$	50	V
Input Voltage	RA107S	- 30, 6	V
	RA108S	- 40, 7	
	RA109S	- 40, 15	
Output Current	$-I_o$	100	mA
Total Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

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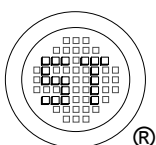
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Characteristics at $T_a = 25\text{ }^{\circ}\text{C}$

Parameter		Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $-V_O = 5\text{ V}$, $-I_O = 10\text{ mA}$	RA107S RA108S RA109S	G_I	80 80 70	- - -	- - -	- - -
Output Cutoff Current at $-V_O = 50\text{ V}$		$-I_{O(OFF)}$	-	-	500	nA
Input Current at $-V_I = 5\text{ V}$	RA107S RA108S RA109S	$-I_I$	- - -	- - -	0.88 0.36 0.16	mA
Output Voltage at $-I_O = 10\text{ mA}$, $-I_I = 0.5\text{ mA}$		$-V_{O(ON)}$	-	-	0.3	V
Input Voltage (ON) at $-V_O = 0.2\text{ V}$, $-I_O = 5\text{ mA}$	RA107S RA108S RA109S	$-V_{I(ON)}$	- - -	- - -	1.8 2.6 5.8	V
Input Voltage (OFF) at $-V_O = 5\text{ V}$, $-I_O = 0.1\text{ mA}$	RA107S RA108S RA109S	$-V_{I(OFF)}$	0.5 0.6 1.5	- - -	- - -	V
Transition Frequency at $-V_O = 10\text{ V}$, $-I_O = 5\text{ mA}$		$f_T^{1)}$	-	200	-	MHz

¹⁾ Characteristic of transistor only.



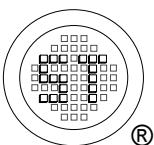
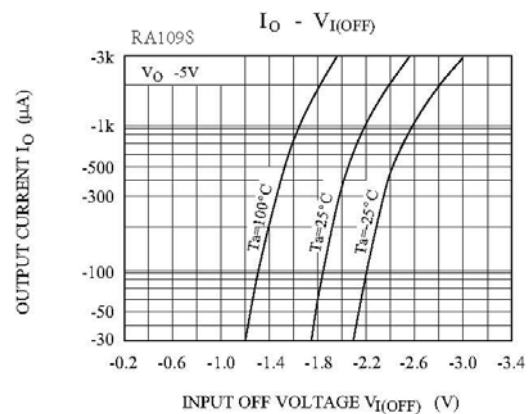
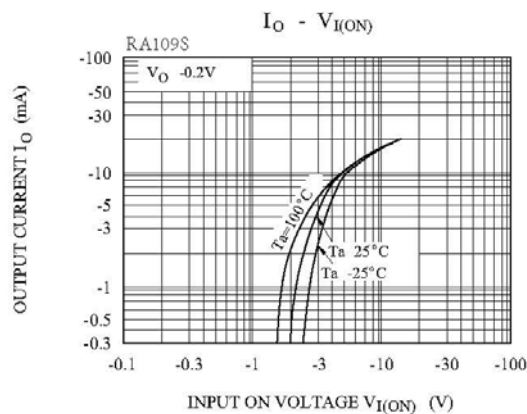
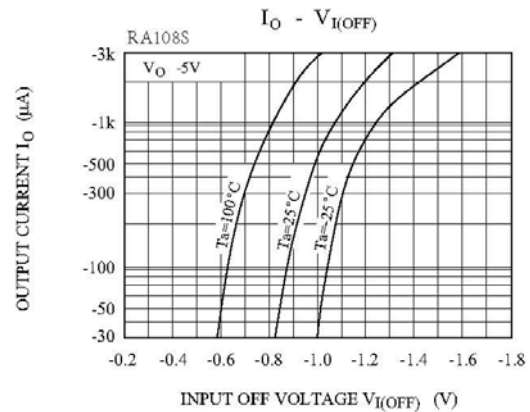
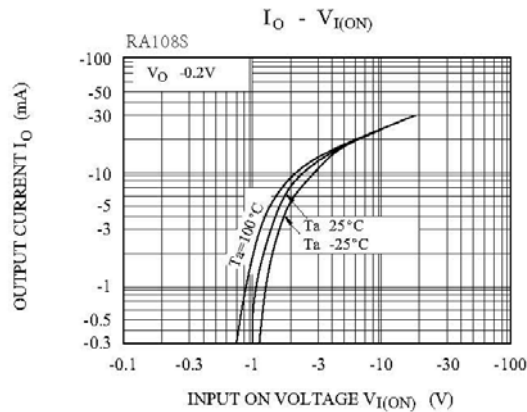
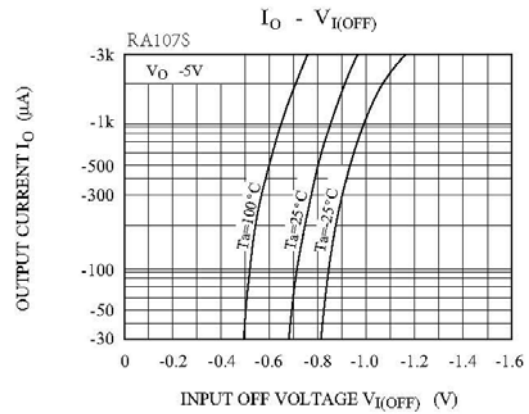
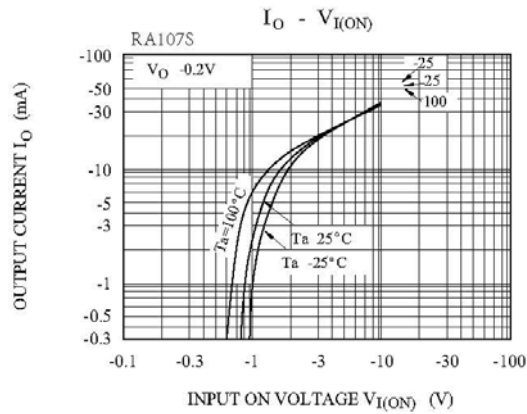
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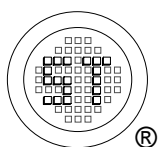
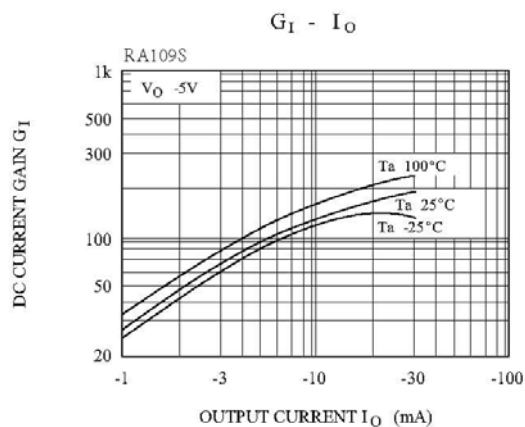
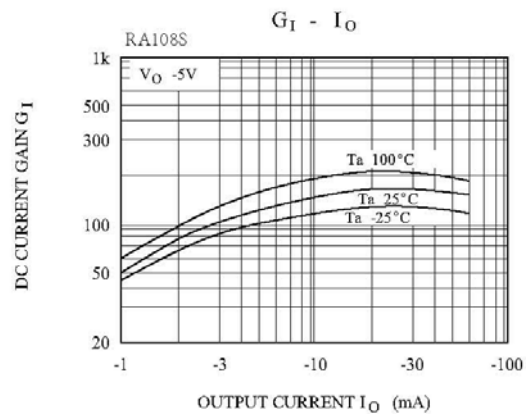
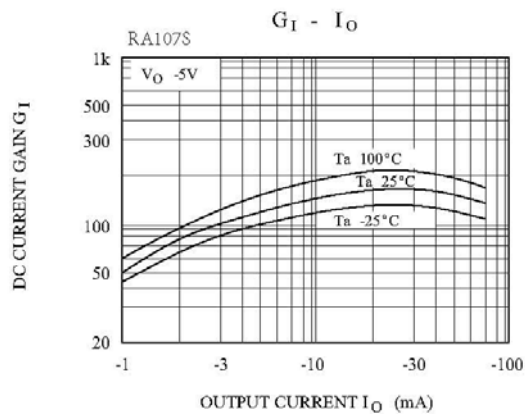
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