

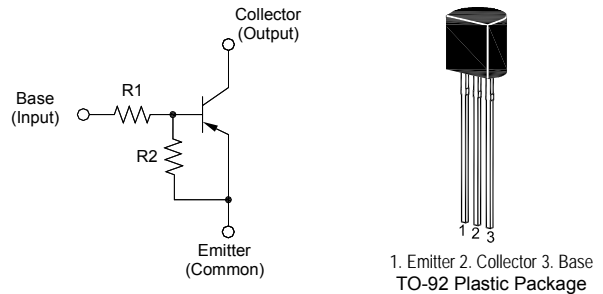
RA221...RA226

PNP Silicon Epitaxial Planar Transistors

for high current switching, interface circuit and driver circuit application.

Feature

- With Built-in Bias Resistor
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process
- High Output Current

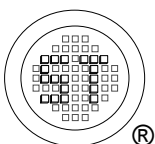


Resistor Values

Type	R1 (KΩ)	R2 (KΩ)
RA221	1	1
RA222	2.2	2.2
RA223	4.7	4.7
RA224	10	10
RA225	1	10
RA226	2.2	10

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

Parameter	Symbol	Value	Unit
Output Voltage	$-V_o$	50	V
Input Voltage	$-V_i$	10, -10	V
		12, -10	
		20, -10	
		30, -10	
		10, -5	
		12, -6	
Output Current	$-I_o$	800	mA
Total Power Dissipation	P_{tot}	400	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$



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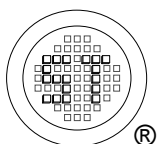


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Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $-V_o = 5\text{ V}$, $-I_o = 50\text{ mA}$	RA221	33	-	-	-
	RA222	39	-	-	-
	RA223	47	-	-	-
	RA224	56	-	-	-
	RA225	56	-	-	-
	RA226	56	-	-	-
Output Cutoff Current at $-V_o = 30\text{ V}$	$-I_{O(OFF)}$	-	-	10	μA
Input Current at $-V_i = 5\text{ V}$	RA221	-	-	7.2	mA
	RA222	-	-	3.8	
	RA223	-	-	1.8	
	RA224	-	-	0.88	
	RA225	-	-	7.2	
	RA226	-	-	3.6	
Output Voltage at $-I_o = 50\text{ mA}$, $-I_i = 2.5\text{ mA}$	$-V_{O(ON)}$	-	-	0.3	V
Input Voltage (ON) at $-V_o = 0.3\text{ V}$, $-I_o = 20\text{ mA}$	RA221	-	-	3	V
	RA222	-	-	3	
	RA223	-	-	3	
	RA224	-	-	3	
	RA225	-	-	3	
	RA226	-	-	2	
Input Voltage (OFF) at $-V_o = 5\text{ V}$, $-I_o = 0.1\text{ mA}$	RA221~224 RA225~226	$-V_{I(OFF)}$	0.5 0.3	- -	V
Transition Frequency at $-V_o = 10\text{ V}$, $-I_o = 5\text{ mA}$, $f = 100\text{ MHz}$	f_T ¹⁾	-	200	-	MHz

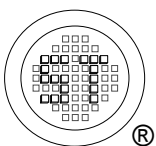
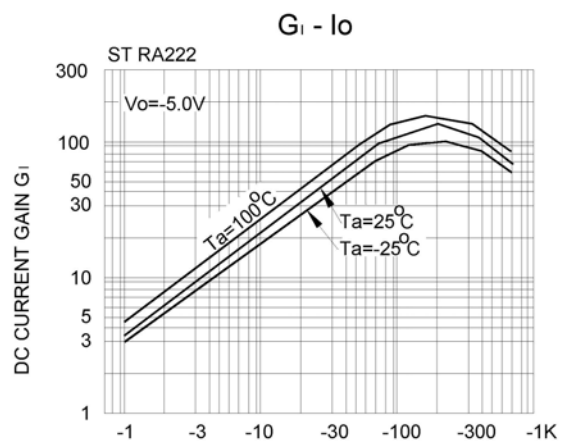
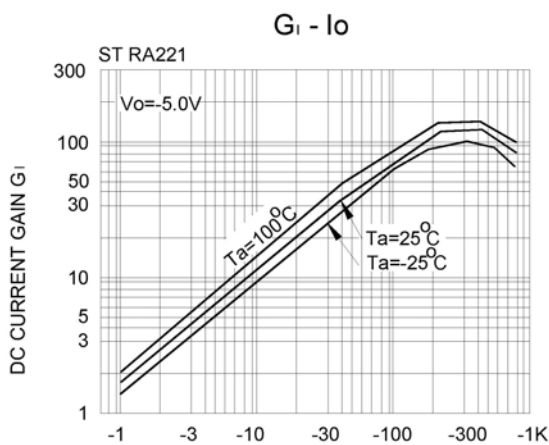
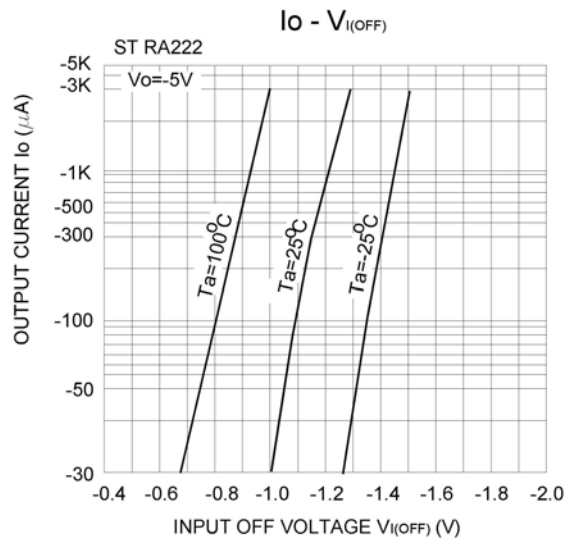
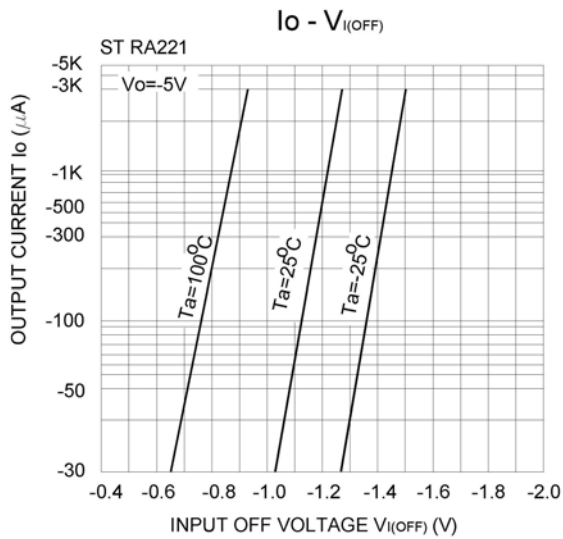
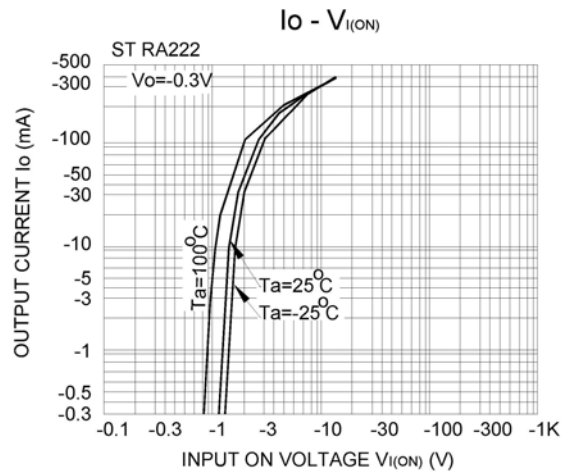
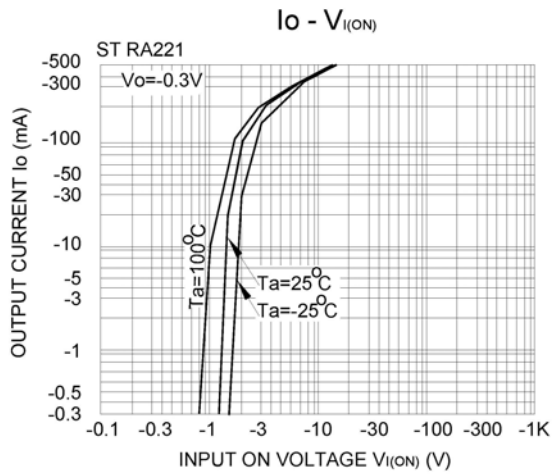
¹⁾ Characteristic of transistor only.



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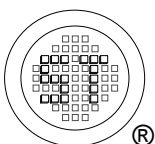
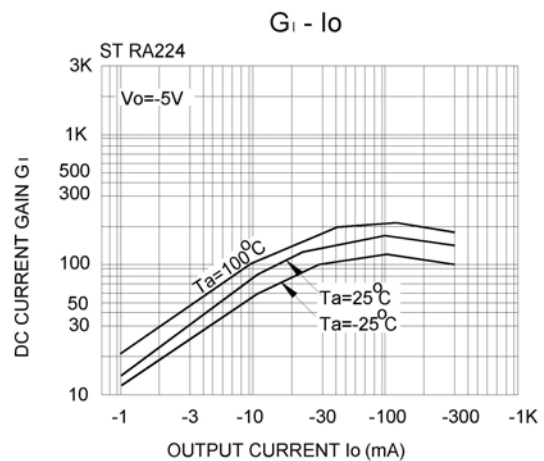
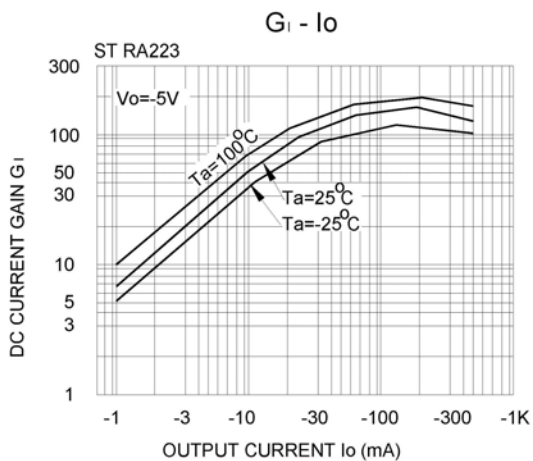
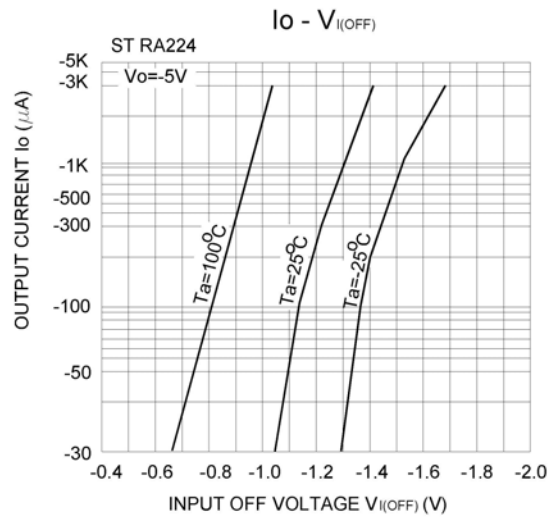
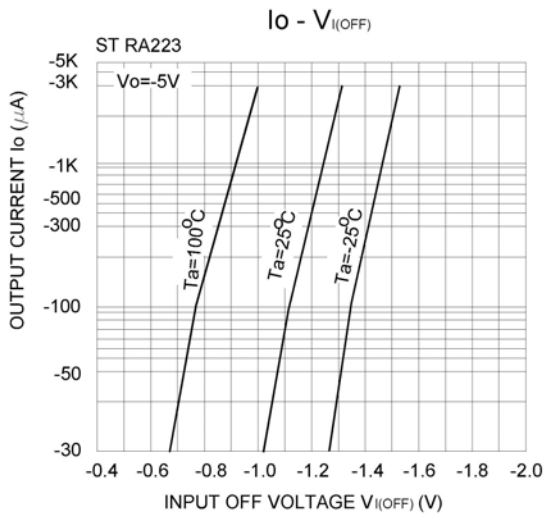
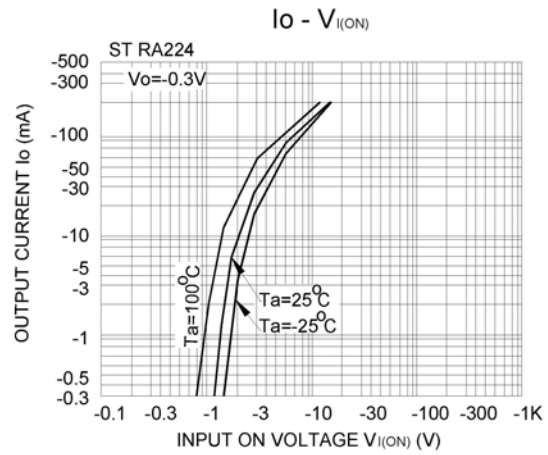
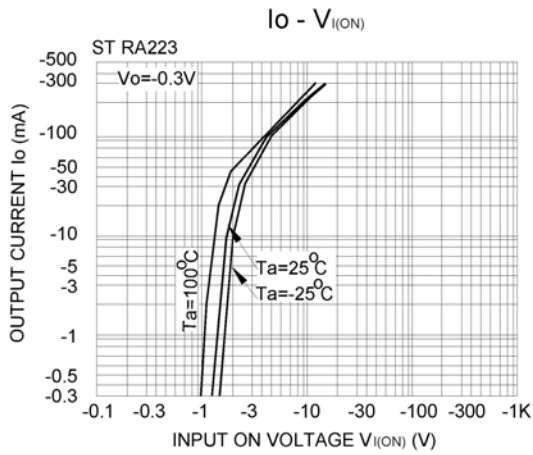
Dated: 23/08/2016 Rev: 04



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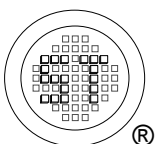
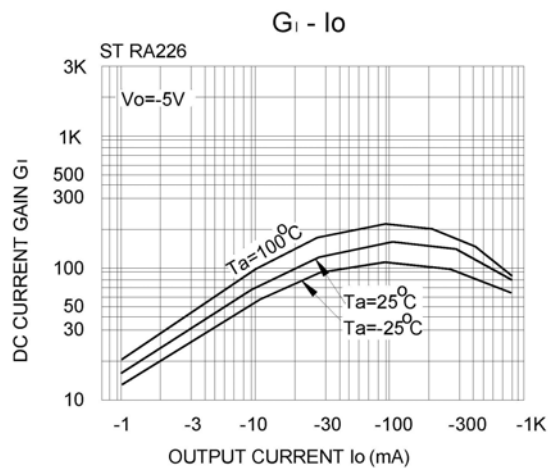
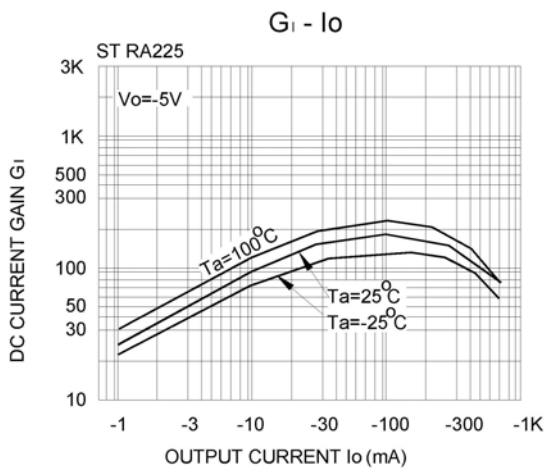
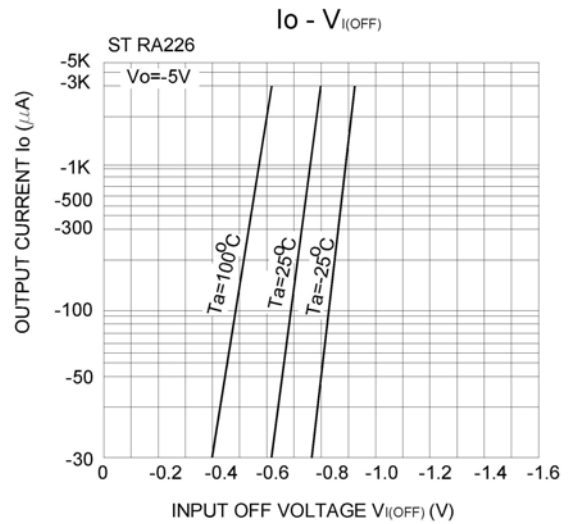
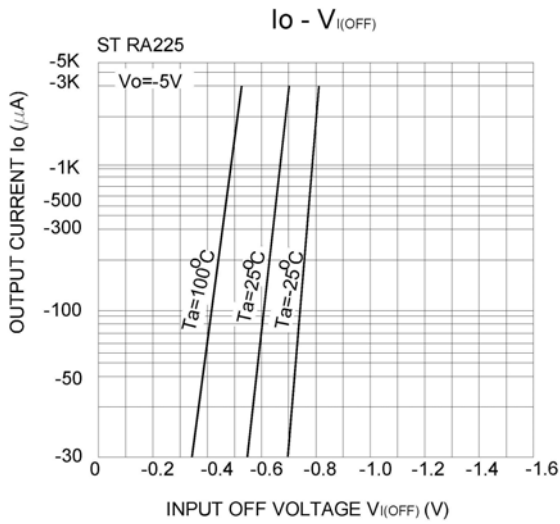
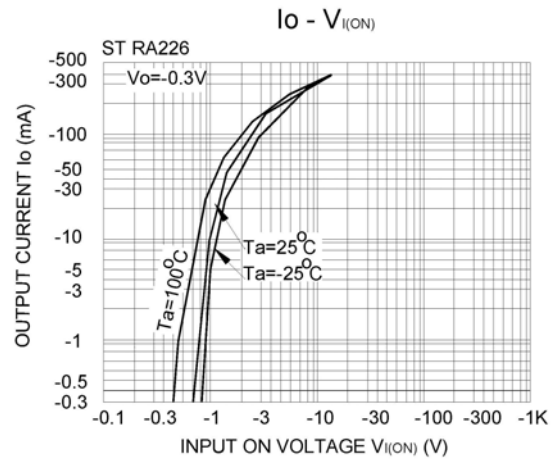
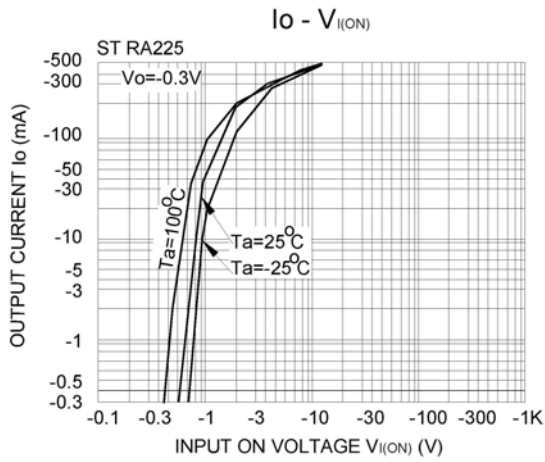
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