

SEMICONDUCTOR TECHNICAL DATA

KRA107S~ KRA109S

EPITAXIAL PLANAR PNP TRANSISTOR

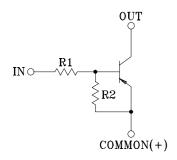
SWITCHING APPLICATION.

INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

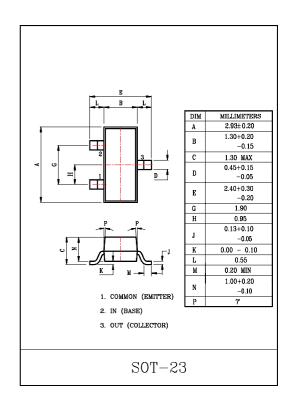
FEATURES

- · With Built-in Bias Resistors
- · Simplify Circuit Design
- · Reduce a Quantity of Parts and Manufacturing Process

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES TYPE NO. $R1(k\Omega)$ $R2(k\Omega)$ KRA107S 10 47 KRA108S 22 47 KRA109S 47 22



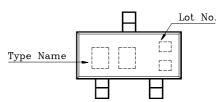
MAXIMUM RATINGS(Ta=25℃)

CHARACTERIST	SYMBOL	RATING	UNIT		
Output Voltage	KRA107S~109S	V_{O}	-50	V	
Input Voltage	KRA107S		-30, 6	V	
	KRA108S	$ m V_{I}$	-40, 7		
	KRA109S		-40, 15		
Output Current	KRA107S~109S	I_{O}	-100	mA	
Power Dissipation		P_{D}	200	mW	
Junction Temperature		T _j	150	°C	
Storage Temperature Range		$T_{ m stg}$	-55~150	°C	

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TYPE K		KRA107S	KRA108S	KRA109S			
	MARK	РН	PI	РЈ			

Marking



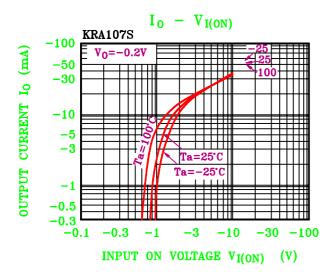
KRA107S~KRA109S

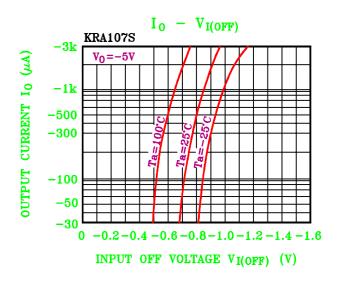
ELECTRICAL CHARACTERISTICS (Ta=25℃)

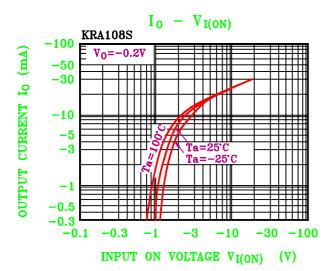
(CHARACTER	RISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-	off Current	KRA107S~109S	$I_{\rm O(OFF)}$	$V_{O} = -50V, V_{I} = 0$	-	-	-500	nA
DC Current Gain		KRA107S			80	150	-	
	KRA108S	G _I	V_{O} =-5 V , I_{O} =-10 mA	80	150	-		
				KRA109S	70	140		_
Output Volta	age	KRA107S~109S	$V_{O(ON)}$	I_{O} =-10mA, I_{I} =-0.5mA	_	-0.1	-0.3	V
		KRA107S			_	-1.2	-1.8	
Input Voltage (ON)	KRA108S	V _{I(ON)}	V_{O} =-0.2V, I_{O} =-5mA	-	-1.8	-2.6	V	
	KRA109S			-	-3.0	-5.8		
		KRA107S	V _{I(OFF)}	V _O =-5V, I _O =-0.1mA	-0.5	-0.75	-	V
Input Votlag	ge (OFF)	KRA108S			-0.6	-0.88	-	
		KRA109S			-1.5	-1.82	-	
Transition F	requency	KRA107S~109S	f _T *	V_{O} =-10V, I_{O} =-5mA	-	200	-	MHz
		KRA107S			-	_	-0.88	
Input Current	KRA108S	$I_{\rm I}$	$V_{\rm I}$ =-5 V	-	-	-0.36	mA	
		KRA109S			-	-	-0.16	
	Rise Time	KRA107S	t_r	V_{O} =-5 V , V_{IN} =-5 V R_{L} =1 $k\Omega$	-	0.07	ı	μS
		KRA108S			_	0.20	ı	
Switching Time		KRA109S			_	0.38	ı	
	Storage Time	KRA107S	$t_{ ext{stg}}$		-	1.1	ı	
		KRA108S			-	1.3	ı	
		KRA109S			-	0.7	-	
	Fall Time	KRA107S	t _f		-	0.35	-	
		KRA108S			-	0.4	ı	
		KRA109S			-	0.48	ı	

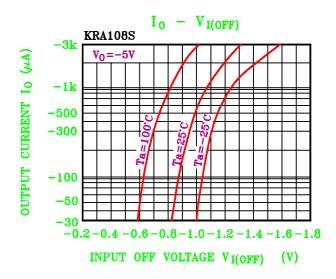
Note: *Characteristic of Transistor Only

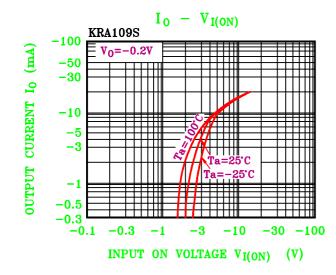
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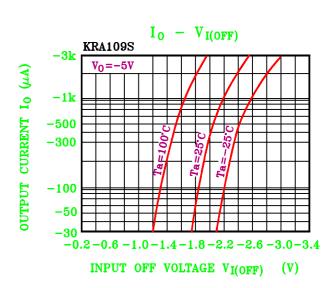












KRA107S~KRA109S

