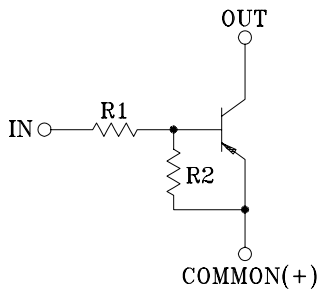


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

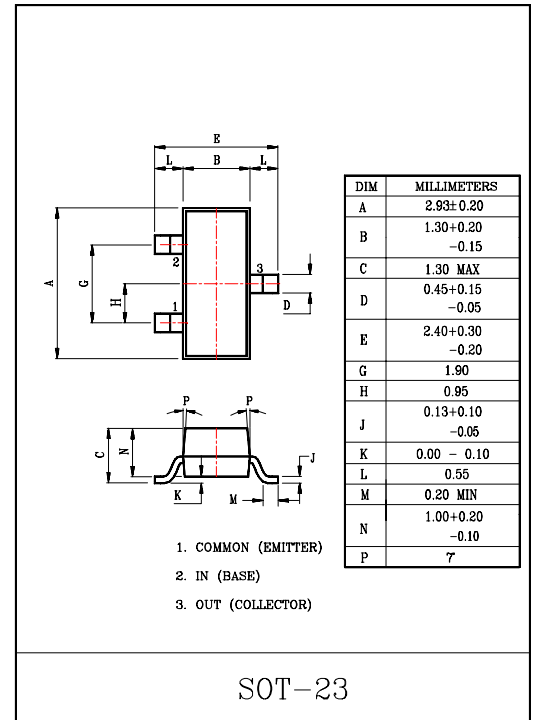
- With Built-in Bias Resistors
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRA107S	10	47
KRA108S	22	47
KRA109S	47	22



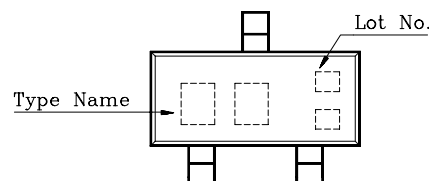
MAXIMUM RATINGS(Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA107S~109S	V _O	-50	V
Input Voltage	KRA107S	V _I	-30, 6	V
	KRA108S		-40, 7	
	KRA109S		-40, 15	
Output Current	KRA107S~109S	I _O	-100	mA
Power Dissipation		P _D	200	mW
Junction Temperature		T _j	150	℃
Storage Temperature Range		T _{stg}	-55~150	℃

MARK SPEC

TYPE	KRA107S	KRA108S	KRA109S
MARK	PH	PI	PJ

Marking

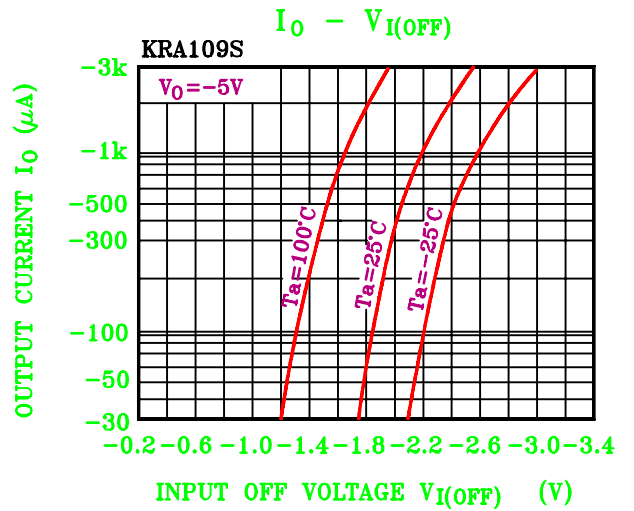
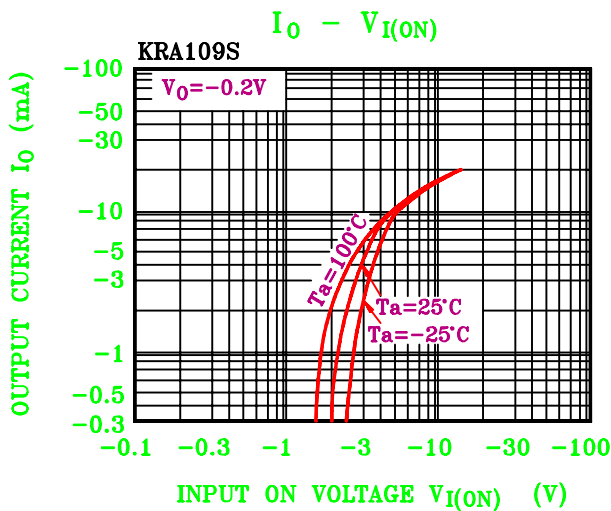
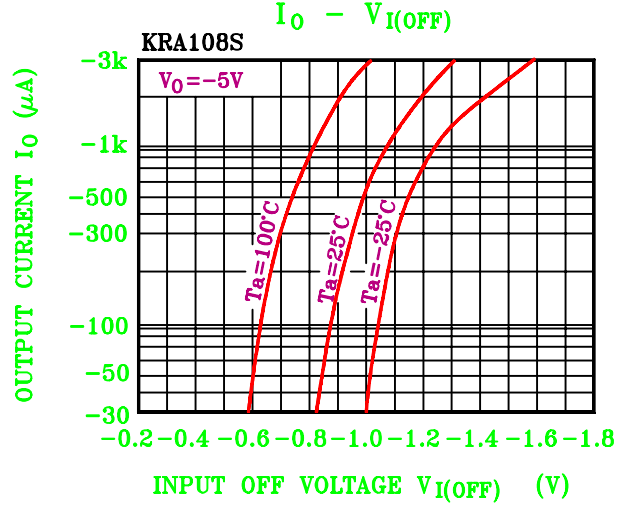
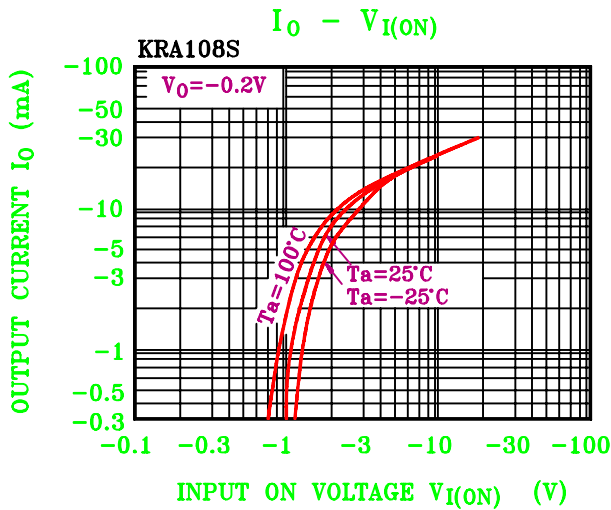
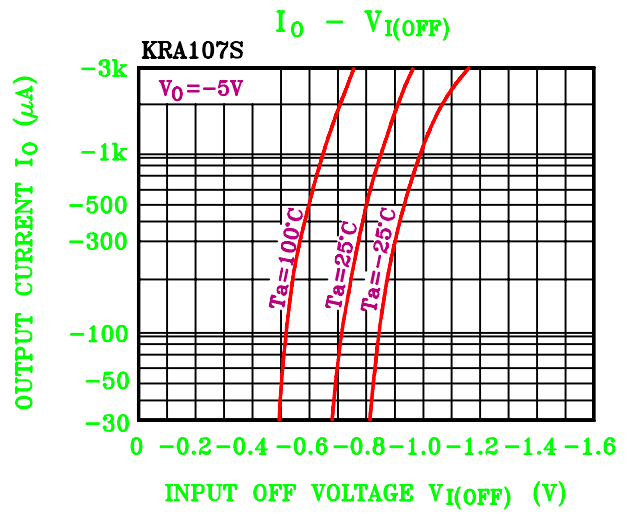
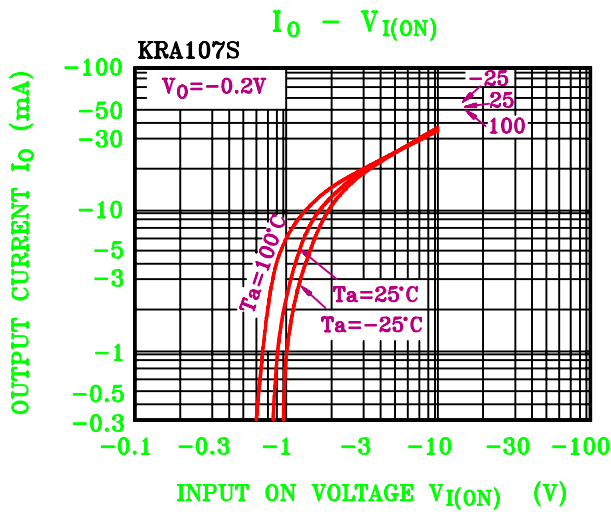


KRA107S ~ KRA109S

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRA107S ~ 109S	$I_{O(OFF)}$	$V_O = -50V, V_I = 0$	-	-	-500	nA
DC Current Gain	KRA107S	G_I	$V_O = -5V, I_O = -10mA$	80	150	-	
	KRA108S			80	150	-	
	KRA109S			70	140	-	
Output Voltage	KRA107S ~ 109S	$V_{O(ON)}$	$I_O = -10mA, I_I = -0.5mA$	-	-0.1	-0.3	V
Input Voltage (ON)	KRA107S	$V_{I(ON)}$	$V_O = -0.2V, I_O = -5mA$	-	-1.2	-1.8	V
	KRA108S			-	-1.8	-2.6	
	KRA109S			-	-3.0	-5.8	
Input Voltage (OFF)	KRA107S	$V_{I(OFF)}$	$V_O = -5V, I_O = -0.1mA$	-0.5	-0.75	-	V
	KRA108S			-0.6	-0.88	-	
	KRA109S			-1.5	-1.82	-	
Transition Frequency	KRA107S ~ 109S	$f_T *$	$V_O = -10V, I_O = -5mA$	-	200	-	MHz
Input Current	KRA107S	I_I	$V_I = -5V$	-	-	-0.88	mA
	KRA108S			-	-	-0.36	
	KRA109S			-	-	-0.16	
Switching Time	Rise Time	KRA107S	$V_O = -5V, V_{IN} = -5V$ $R_L = 1k\Omega$	-	0.07	-	μS
		KRA108S		-	0.20	-	
		KRA109S		-	0.38	-	
	Storage Time	KRA107S		-	1.1	-	
		KRA108S		-	1.3	-	
		KRA109S		-	0.7	-	
	Fall Time	KRA107S		-	0.35	-	
		KRA108S		-	0.4	-	
		KRA109S		-	0.48	-	

Note : *Characteristic of Transistor Only



KRA107S ~ KRA109S

