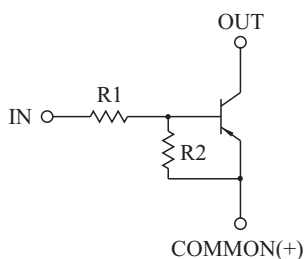


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

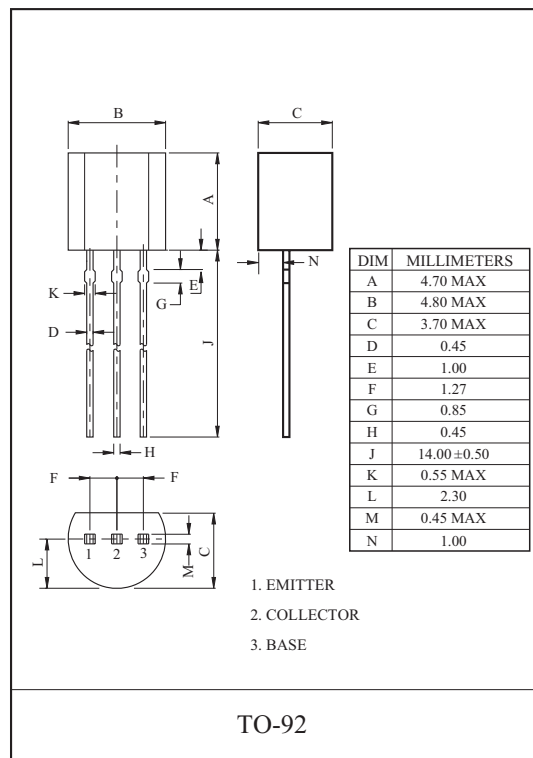
- With Built-in Bias Resistors
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRA107	10	47
KRA108	22	47
KRA109	47	22



MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA107 109	V_O	-50	V
Input Voltage	KRA107	V_I	-30, 6	V
	KRA108		-40, 7	
	KRA109		-40, 15	
Output Current	KRA107 109	I_O	-100	mA
Power Dissipation		P_D	625	mW
Junction Temperature		T_j	150	
Storage Temperature Range		T_{stg}	-55 150	

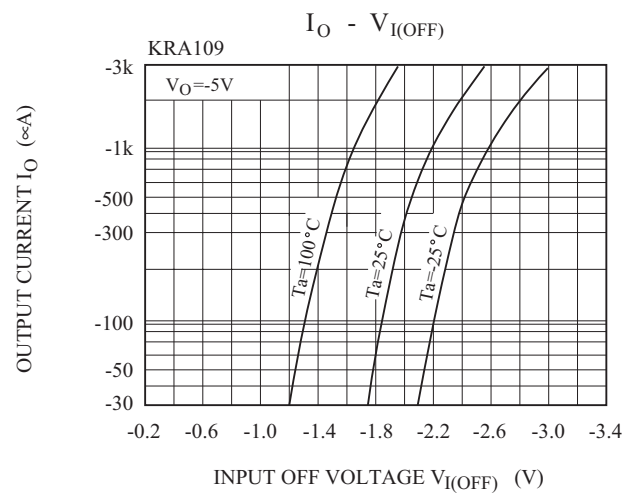
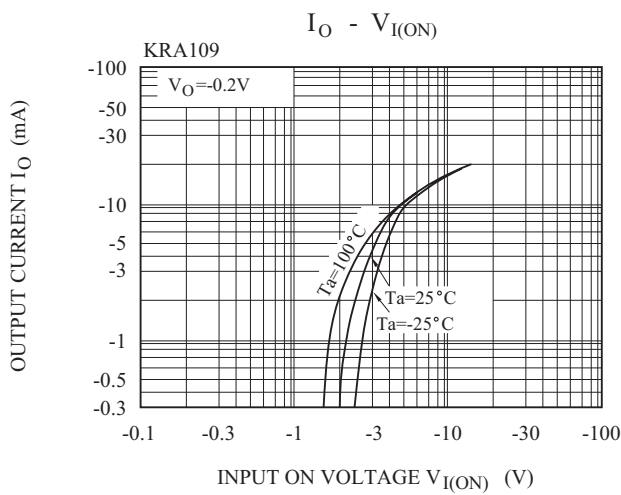
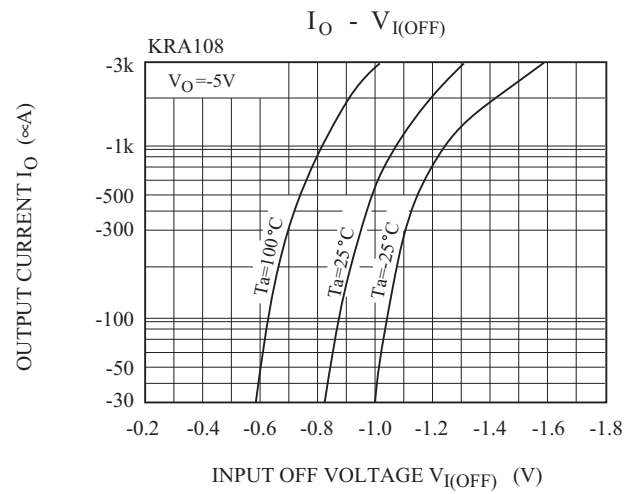
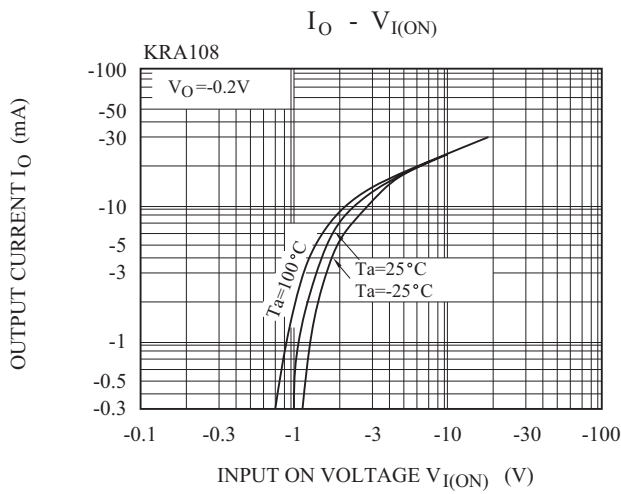
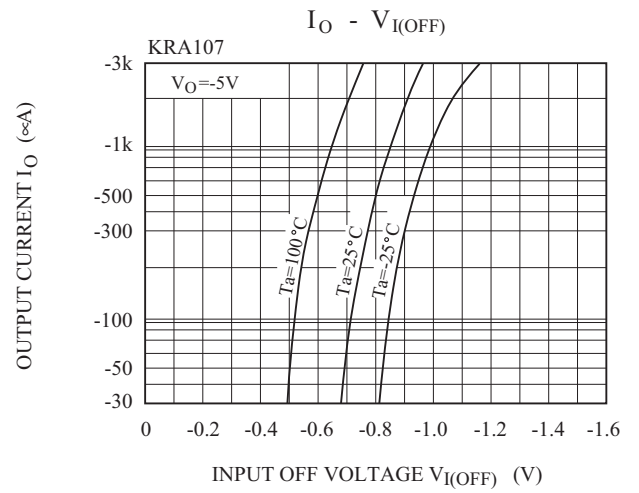
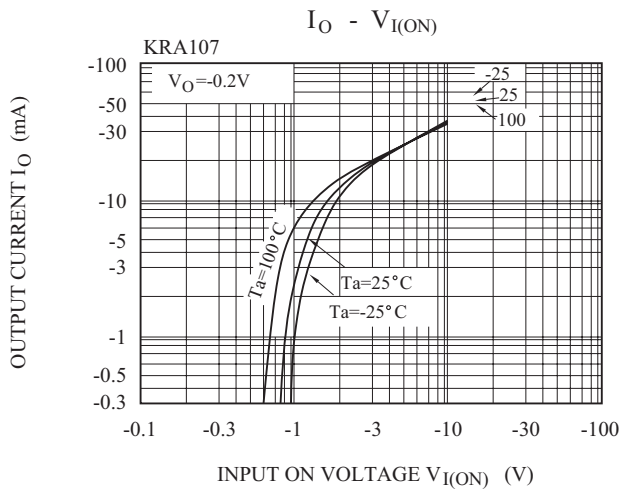
KRA107~KRA109

ELECTRICAL CHARACTERISTICS (Ta=25)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Output Cut-off Current		KRA107 109	I _{O(OFF)}	V _O =-50V, V _I =0	-	-	-500	nA
DC Current Gain	KRA107	G _I	V _O =-5V, I _O =-10mA	80	150	-		
	KRA108			80	150	-		
	KRA109			70	140	-		
Output Voltage		KRA107 109	V _{O(ON)}	I _O =-10mA, I _I =-0.5mA	-	-0.1	-0.3	V
Input Voltage (ON)	KRA107	V _{I(ON)}	V _O =-0.2V, I _O =-5mA	-	-1.2	-1.8	V	
	KRA108			-	-1.8	-2.6		
	KRA109			-	-3.0	-5.8		
Input Votlage (OFF)	KRA107	V _{I(OFF)}	V _O =-5V, I _O =-0.1mA	-0.5	-0.75	-	V	
	KRA108			-0.6	-0.88	-		
	KRA109			-1.5	-1.82	-		
Transition Frequency		KRA107 109	f _T *	V _O =-10V, I _O =-5mA	-	200	-	MHz
Input Current		KRA107	I _I	V _I =-5V	-	-	-0.88	mA
		KRA108			-	-	-0.36	
		KRA109			-	-	-0.16	
Switching Time	Rise Time	KRA107	t _r	V _O =-5V, V _{IN} =-5V R _L =1kΩ	-	0.07	-	μs
		KRA108			-	0.20	-	
		KRA109			-	0.38	-	
	Storage Time	KRA107	t _{stg}		-	1.1	-	
		KRA108			-	0.3	-	
		KRA109			-	0.7	-	
	Fall Time	KRA107	t _f		-	0.35	-	
		KRA108			-	0.4	-	
		KRA109			-	0.48	-	
Input Resistor		KRA107	R1	-	7	10	13	kΩ
		KRA108			15.4	22	28.6	
		KRA109			32.9	47	61.1	
Resistor Ratio		KRA107	R2/R1	-	3.7	4.7	5.7	
		KRA108			1.7	2.1	2.6	
		KRA109			0.37	0.47	0.57	

Note : * Characteristic of Transistor Only.

KRA107~KRA109



KRA107~KRA109

