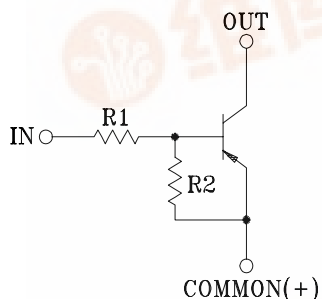


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER
CIRCUIT APPLICATION.

FEATURES

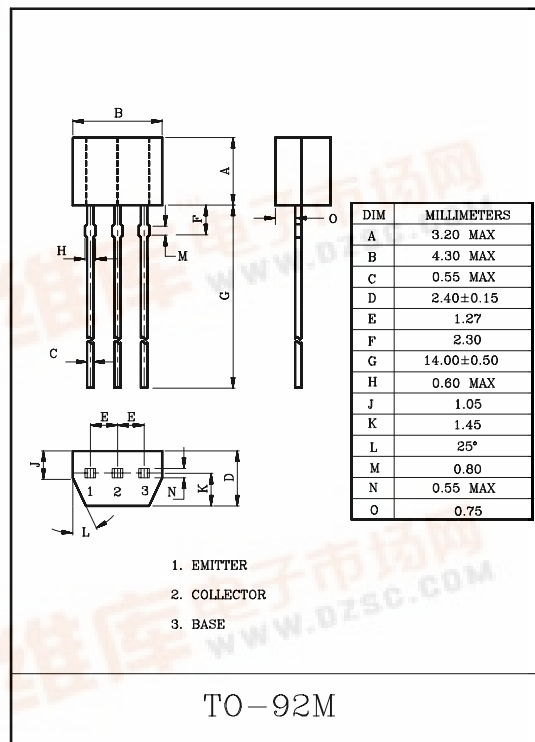
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(kΩ)	R2(kΩ)
KRA107M	10	47
KRA108M	22	47
KRA109M	47	22



MAXIMUM RATINGS(Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA107M ~109M	V _O	-50	V
Input Voltage	KRA107M	V _I	-30, 6	V
	KRA108M		-40, 7	
	KRA109M		-40, 15	
Output Current	KRA107M ~109M	I _O	-100	mA
Power Dissipation		P _D	400	mW
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-55~150	°C

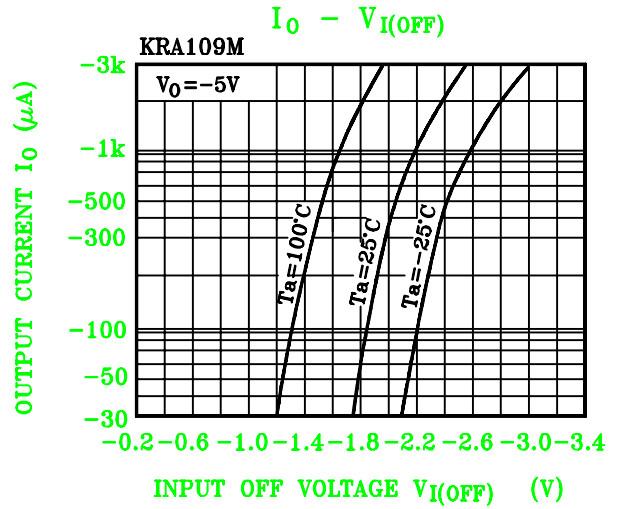
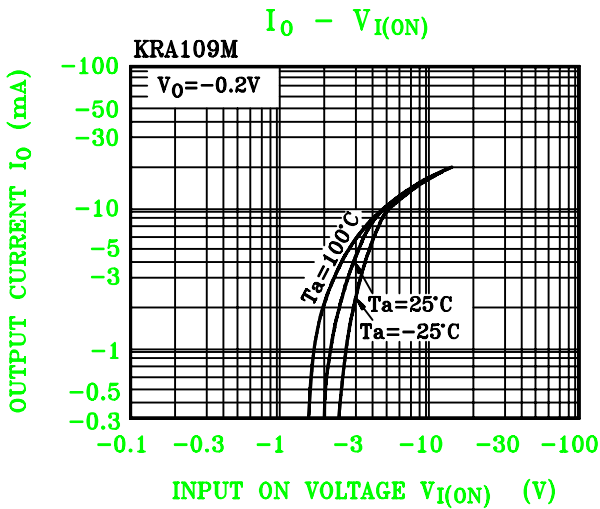
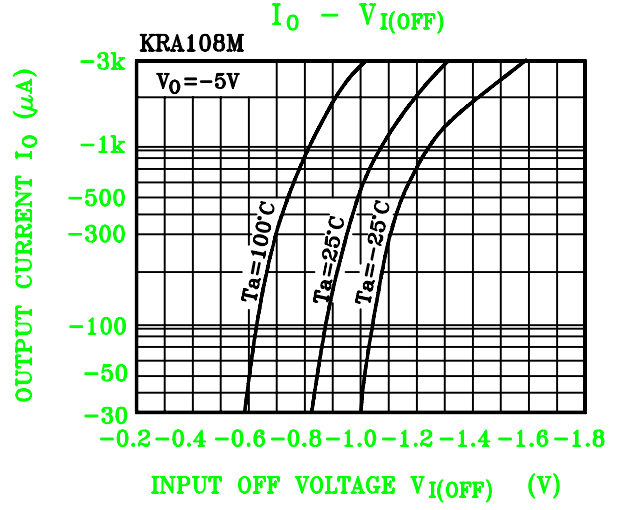
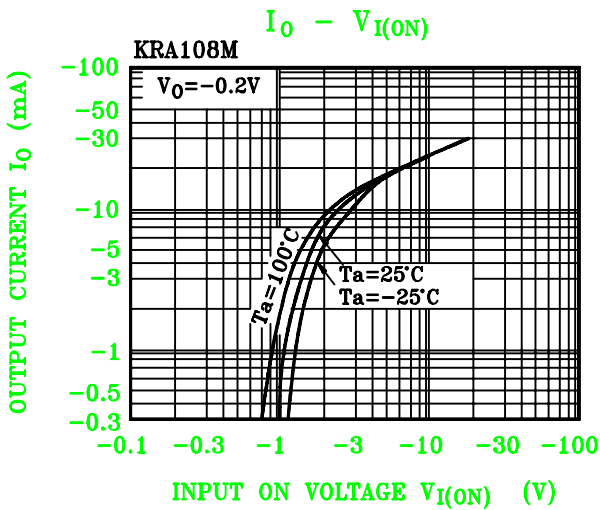
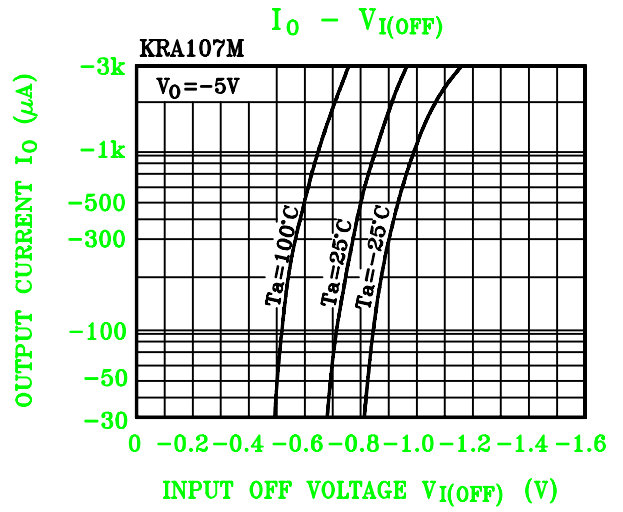
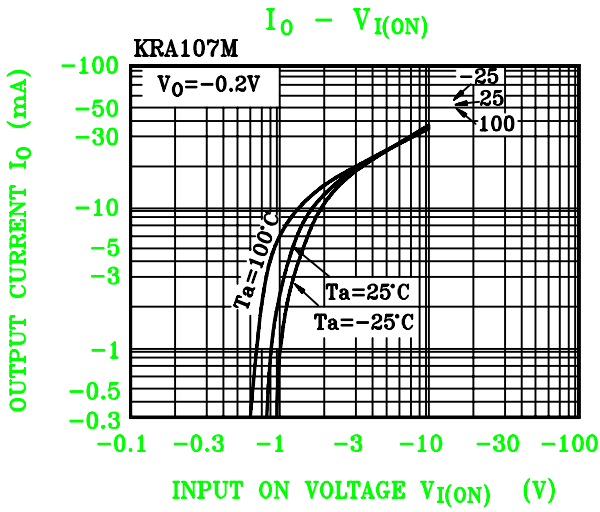
KRA107M~KRA109M

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Output Cut-off Current	KRA107M~109M	$I_{O(OFF)}$	$V_O=-50V, V_I=0$	-	-	-500	nA	
DC Current Gain	KRA107M	G_{β}	$V_O=-5V, I_O=-10mA$	80	150	-		
	KRA108M			80	150	-		
	KRA109M			70	140	-		
Output Voltage	KRA107M~109M	$V_{O(ON)}$	$I_O=-10mA, I_I=-0.5mA$	-	-0.1	-0.3	V	
Input Voltage (ON)	KRA107M	$V_{I(ON)}$	$V_O=-0.2V, I_O=-5mA$	-	-1.2	-1.8	V	
	KRA108M			-	-1.8	-2.6		
	KRA109M			-	-3.0	-5.8		
Input Voltage (OFF)	KRA107M	$V_{I(OFF)}$	$V_O=-5V, I_O=-0.1mA$	-0.5	-0.75	-	V	
	KRA108M			-0.6	-0.88	-		
	KRA109M			-1.5	-1.82	-		
Transition Frequency	KRA107M~109M	f_T *	$V_O=-10V, I_O=-5mA$	-	200	-	MHz	
Input Current	KRA107M	I_I	$V_I=-5V$	-	-	-0.88	mA	
	KRA108M			-	-	-0.36		
	KRA109M			-	-	-0.16		
Switching Time	Rise Time	KRA107M	$V_O=-5V$ $V_{IN}=-5V$ $R_L=1k\Omega$	-	0.07	-	μS	
		KRA108M		-	0.20	-		
		KRA109M		-	0.38	-		
	Storage Time	KRA107M		t_{stg}	-	1.1		-
		KRA108M			-	0.3		-
		KRA109M			-	0.7		-
	Fall Time	KRA107M		t_f	-	0.35		-
		KRA108M			-	0.4		-
		KRA109M			-	0.48		-

Note : *Characteristic of Transistor Only

KRA107M ~ KRA109M



KRA107M ~ KRA109M

