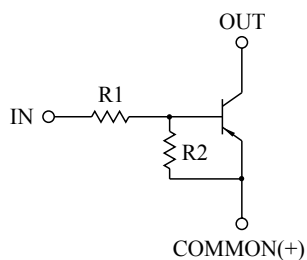


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

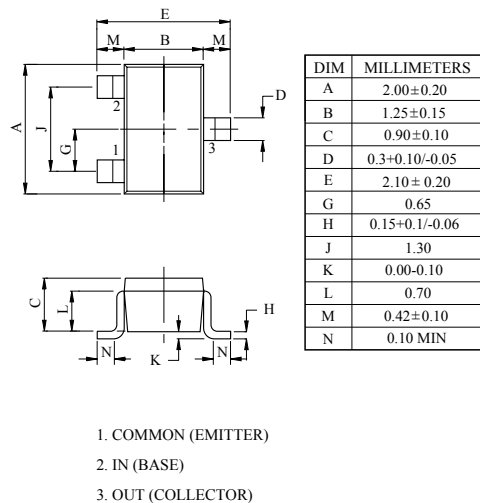
- With Built-in Bias Resistors
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process
- High Packing Density.

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRA307	10	47
KRA308	22	47
KRA309	47	22



USM

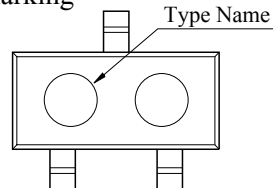
MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA307 ~ 309	V_O	-50	V
Input Voltage	KRA307	V_I	-30, 6	V
	KRA308		-40, 7	
	KRA309		-40, 15	
Output Current	KRA307 ~ 309	I_O	-100	mA
Power Dissipation		P_D	100	mW
Junction Temperature		T_j	150	°C
Storage Temperature Range		T_{stg}	-55 ~ 150	°C

MARK SPEC

TYPE	KRA307	KRA308	KRA309
MARK	PH	PI	PJ

Marking



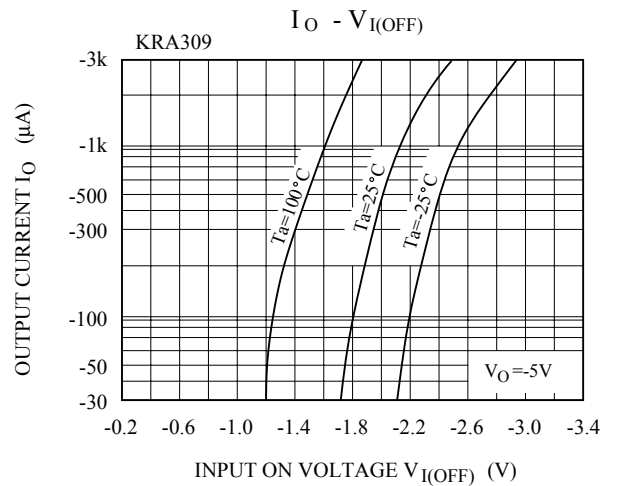
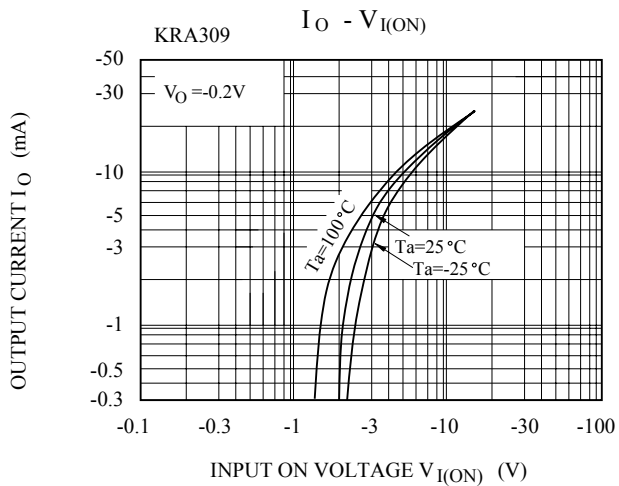
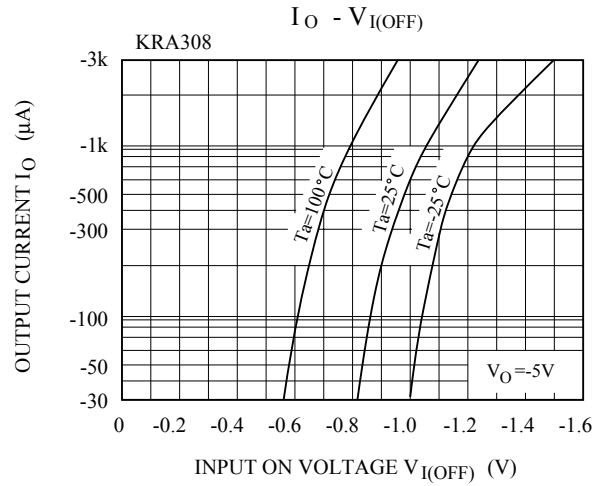
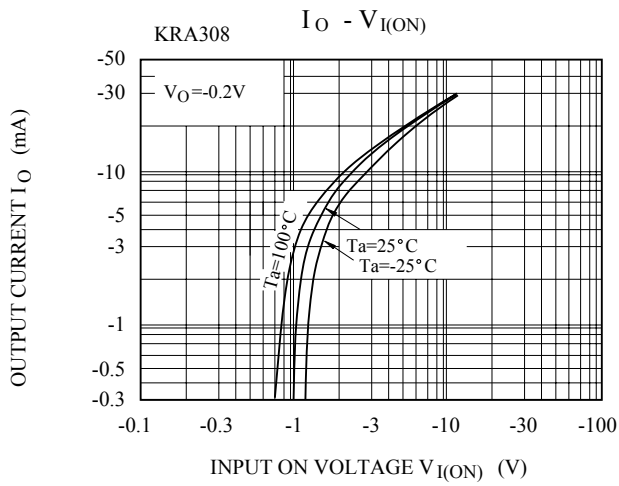
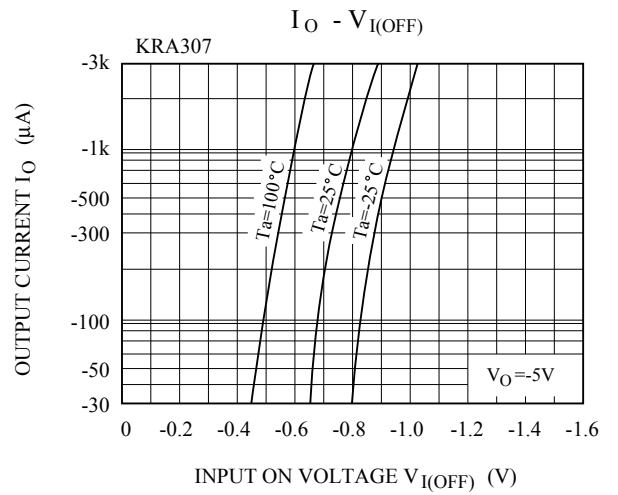
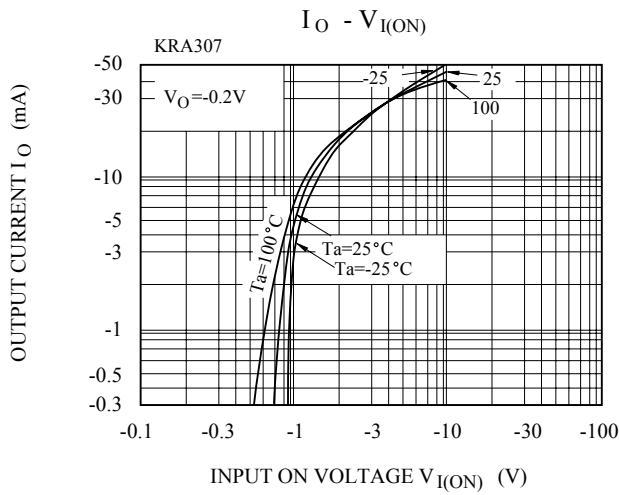
KRA307~KRA309

ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT		
Output Cut-off Current		KRA307 ~ 309	I _{O(OFF)}	V _O =-50V, V _I =0	-	-	-500	nA	
DC Current Gain	KRA307	G _I	V _O =-5V, I _O =-10mA	80	150	-			
	KRA308			80	150	-			
	KRA309			70	140	-			
Output Voltage		KRA307 ~ 309	V _{O(ON)}	I _O =-10mA, I _I =-0.5mA	-	-0.1	-0.3	V	
Input Voltage (ON)	KRA307	V _{I(ON)}	V _O =-0.2V, I _O =-5mA	-	-1.2	-1.8	V		
	KRA308			-	-1.8	-2.6			
	KRA309			-	-3.0	-5.8			
Input Votlage (OFF)	KRA307	V _{I(OFF)}	V _O =-5V, I _O =-0.1mA	-0.5	-0.75	-	V		
	KRA308			-0.6	-0.88	-			
	KRA309			-1.5	-1.82	-			
Transition Frequency		KRA307 ~ 309	f _T *	V _O =-10V, I _O =-5mA	-	200	-	MHz	
Input Current	KRA307	I _I	V _I =-5V	-	-	-0.88	mA		
	KRA308			-	-	-0.36			
	KRA309			-	-	-0.16			
Switching Time	Rise Time	KRA307	t _r	V _O =-5V, V _{IN} =-5V R _L =1k Ω	-	0.07	-	μS	
		KRA308			-	0.20	-		
		KRA309			-	0.38	-		
	Storage Time	KRA307			t _{stg}	-	1.1		-
		KRA308				-	1.3		-
		KRA309				-	0.7		-
	Fall Time	KRA307			t _f	-	0.35		-
		KRA308				-	0.4		-
		KRA309				-	0.48		-

Note : * Characteristic of Transistor Only.

KRA307~KRA309



KRA307~KRA309

