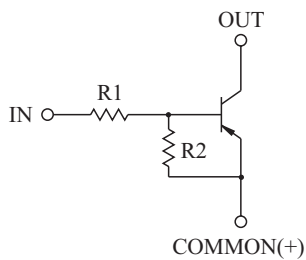


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

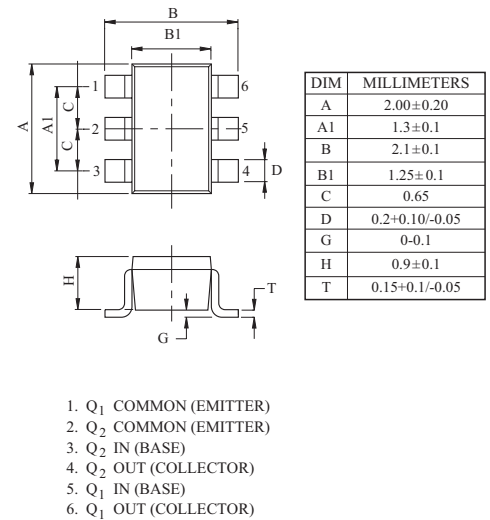
- With Built-in Bias Resistors
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process
- High Packing Density.

EQUIVALENT CIRCUIT



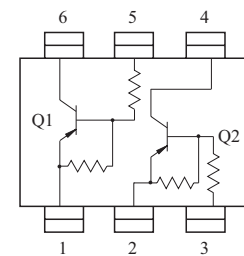
BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRA727U	10	47
KRA728U	22	47
KRA729U	47	22



US6

EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATING (Ta=25 °C)

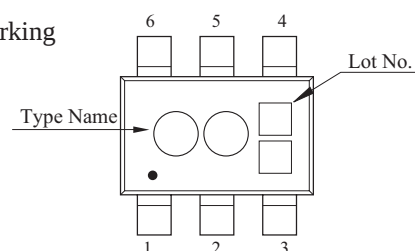
CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA727U ~729U	V_O	-50	V
Input Voltage	KRA727U	V_I	-30, 6	V
	KRA728U		-40, 7	
	KRA729U		-40, 15	
Output Current	KRA727U ~729U	I_O	-100	mA
Power Dissipation		P_D^*	200	mW
Junction Temperature		T_j	150	°C
Storage Temperature Range		T_{stg}	-55 ~150	°C

* Total Rating.

MARK SPEC

TYPE	KRA727U	KRA728U	KRA729U
MARK	JH	JI	JJ

Marking



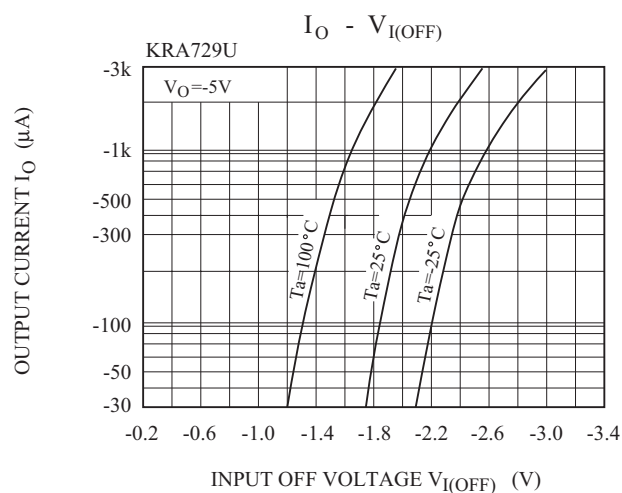
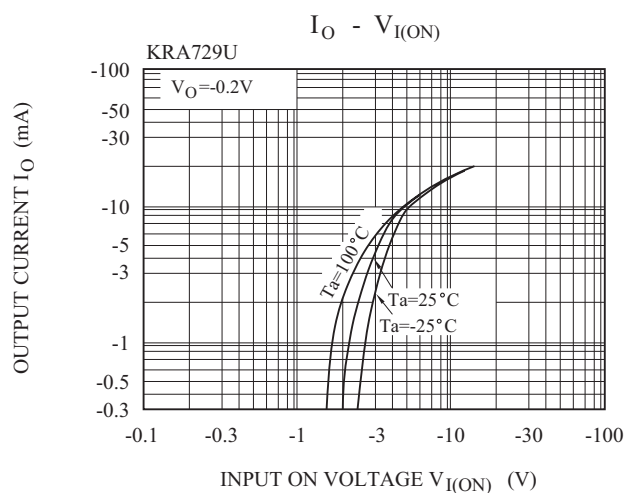
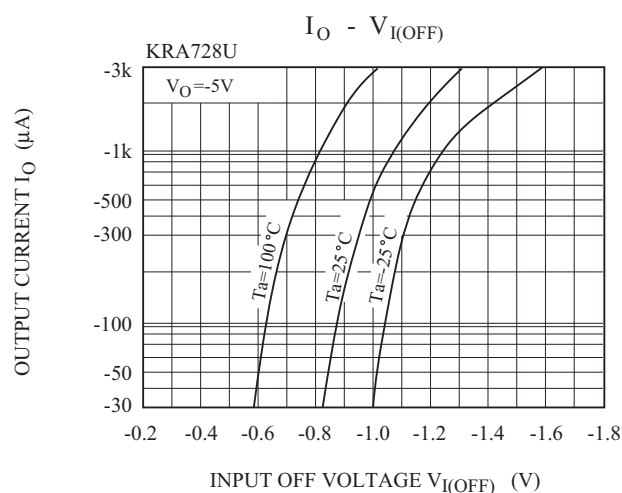
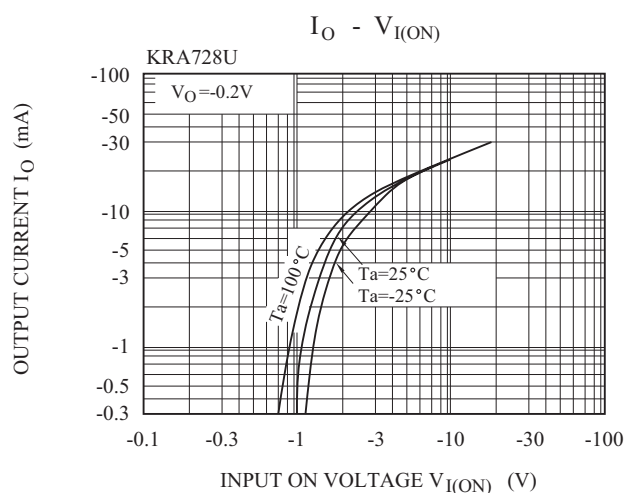
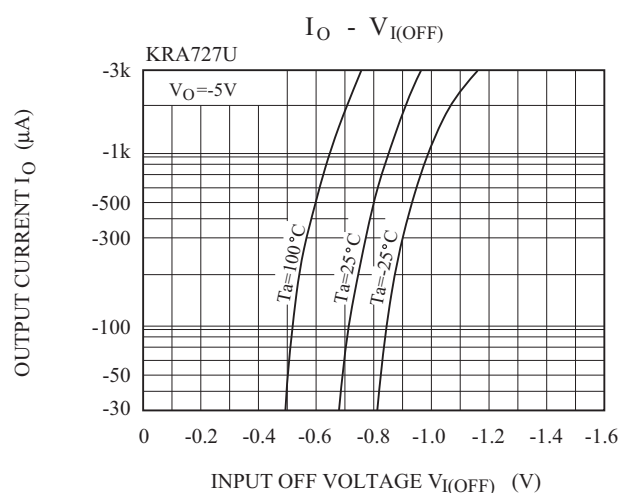
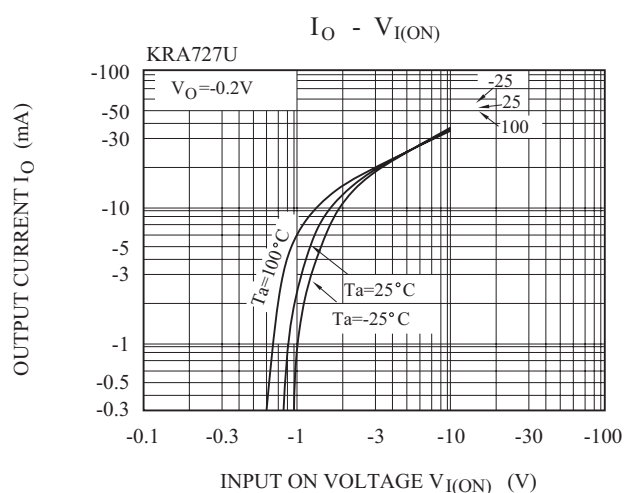
KRA727U~KRA729U

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRA727U ~ 729U	$I_{O(OFF)}$	$V_O = -50V, V_I = 0$	-	-	-500	nA
DC Current Gain	KRA727U	G_I	$V_O = -5V, I_O = -10mA$	80	150	-	
	KRA728U			80	150	-	
	KRA729U			70	140	-	
Output Voltage	KRA727U ~ 729U	$V_{O(ON)}$	$I_O = -10mA, I_I = -0.5mA$	-	-0.1	-0.3	V
Input Voltage (ON)	KRA727U	$V_{I(ON)}$	$V_O = -0.2V, I_O = -5mA$	-	-1.2	-1.8	V
	KRA728U			-	-1.8	-2.6	
	KRA729U			-	-3.0	-5.8	
Input Voltage (OFF)	KRA727U	$V_{I(OFF)}$	$V_O = -5V, I_O = -0.1mA$	-0.5	-0.75	-	V
	KRA728U			-0.6	-0.88	-	
	KRA729U			-1.5	-1.82	-	
Transition Frequency	KRA727U ~ 729U	f_T^*	$V_O = -10V, I_O = -5mA$	-	200	-	MHz
Input Current	KRA727U	I_I	$V_I = -5V$	-	-	-0.88	mA
	KRA728U			-	-	-0.36	
	KRA729U			-	-	-0.16	
Switching Time	Rise Time	KRA727U	$V_O = -5V, V_{IN} = -5V$ $R_L = 1k \Omega$	-	0.07	-	μS
		KRA728U		-	0.20	-	
		KRA729U		-	0.38	-	
	Storage Time	KRA727U		-	1.1	-	
		KRA728U		-	1.3	-	
		KRA729U		-	0.7	-	
	Fall Time	KRA727U		-	0.35	-	
		KRA728U		-	0.4	-	
		KRA729U		-	0.48	-	

Note : * Characteristic of Transistor Only.

KRA727U~KRA729U



KRA727U~KRA729U

