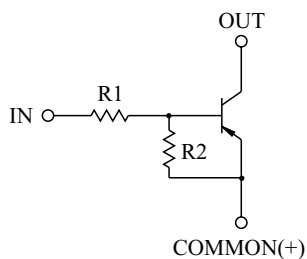


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

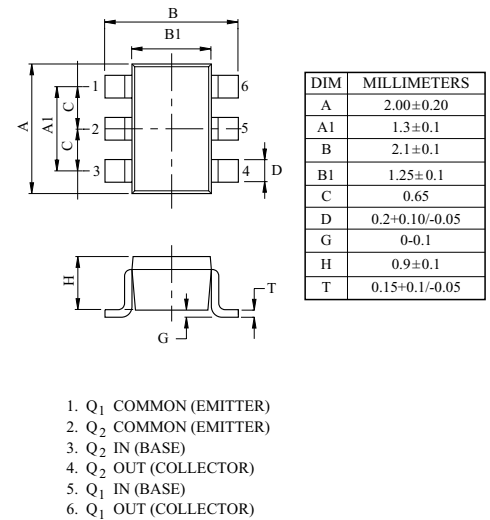
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.
- Suffix U : Qualified to AEC-Q101.
ex) KRA721U-RTK/HU

EQUIVALENT CIRCUIT



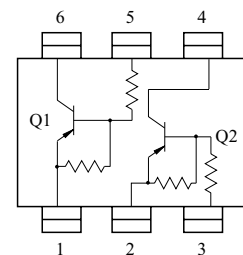
BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRA721U	4.7	4.7
KRA722U	10	10
KRA723U	22	22
KRA724U	47	47
KRA725U	2.2	47
KRA726U	4.7	47



US6

EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATING (Ta=25 °C)

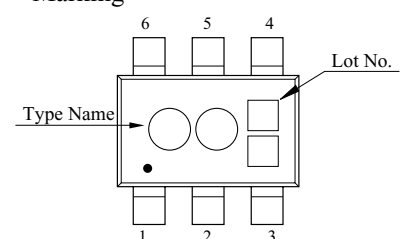
CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA721U 726U	V_O	-50	V
Input Voltage	KRA721U	V_I	-20, 10	V
	KRA722U		-30, 10	
	KRA723U		-40, 10	
	KRA724U		-40, 10	
	KRA725U		-12, 5	
	KRA726U		-20, 5	
Output Current	KRA721U 726U	I_O	-100	mA
Power Dissipation		P_D *	200	mW
Junction Temperature		T_j	-55~150	
Storage Temperature Range		T_{stg}	-55~150	

* Total Rating.

MARK SPEC

TYPE	KRA721U	KRA722U	KRA723U	KRA724U	KRA725U	KRA726U
MARK	JA	JB	JC	JD	JE	JF

Marking



KRA721U~KRA726U

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRA721U 726U	$I_{O(OFF)}$	$V_O = -50V, V_I = 0$	-	-	-500	nA
DC Current Gain	KRA721U	G_I	$V_O = -5V, I_O = -10mA$	30	55	-	
	KRA722U			50	80	-	
	KRA723U			70	120	-	
	KRA724U			80	200	-	
	KRA725U			80	200	-	
	KRA726U			80	200	-	
Output Voltage	KRA721U 726U	$V_{O(ON)}$	$I_O = -10mA, I_I = -0.5mA$	-	-0.1	-0.3	V
Input Voltage (ON)	KRA721U	$V_{I(ON)}$	$V_O = -0.2V, I_O = -5mA$	-	-1.5	-2.0	V
	KRA722U			-	-1.8	-2.4	
	KRA723U			-	-2.1	-3.0	
	KRA724U			-	-2.8	-5.0	
	KRA725U			-	-0.8	-1.1	
	KRA726U			-	-0.9	-1.3	
Input Voltage (OFF)	KRA721U 724U	$V_{I(OFF)}$	$V_O = -5V, I_O = -0.1mA$	-1.0	-1.2	-	V
	KRA725U 726U			-0.5	-0.65	-	
Transition Frequency	KRA721U 726U	f_T^*	$V_O = -10V, I_O = -5mA$	-	200	-	MHz
Input Current	KRA721U	I_I	$V_I = -5V$	-	-	-1.8	mA
	KRA722U			-	-	-0.88	
	KRA723U			-	-	-0.36	
	KRA724U			-	-	-0.18	
	KRA725U			-	-	-3.6	
	KRA726U			-	-	-1.8	
Input Resistor	KRA721U	R1	-	3.29	4.7	6.11	kΩ
	KRA722U			7	10	13	
	KRA723U			15.4	22	28.6	
	KRA724U			32.9	47	61.1	
	KRA725U			1.54	2.2	2.86	
	KRA726U			3.29	4.7	6.11	
Resistor Ratio	KRA721U 724U	R2/R1	-	0.8	1.0	1.2	
	KRA725U			17	21	26	
	KRA726U			8	10	12	

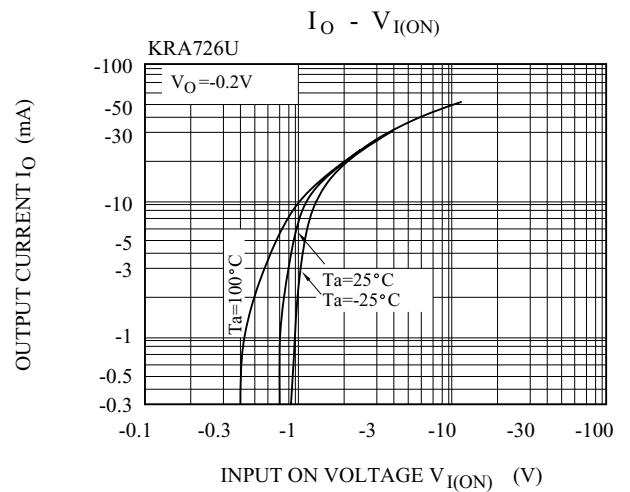
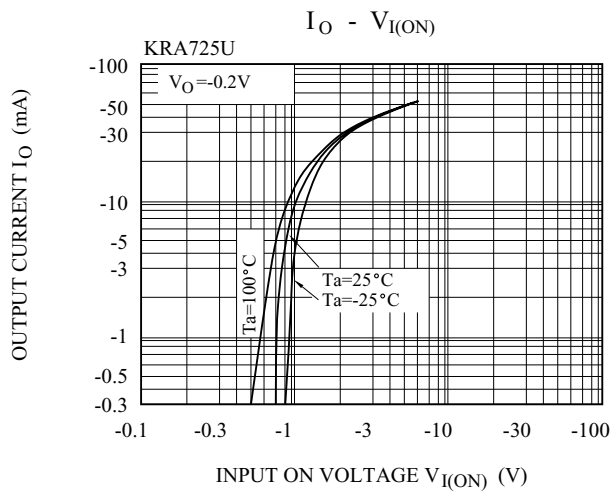
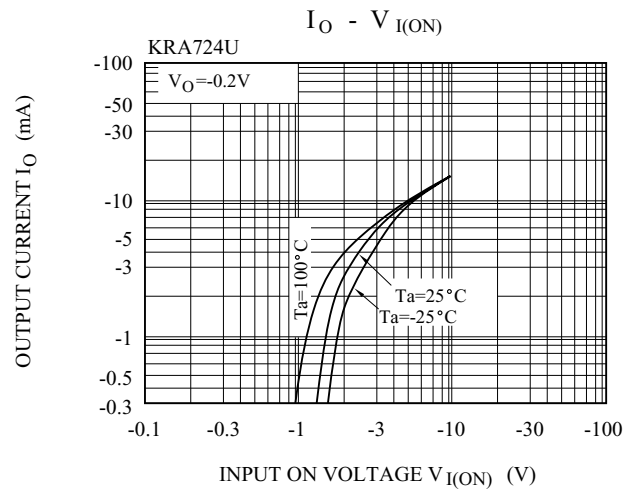
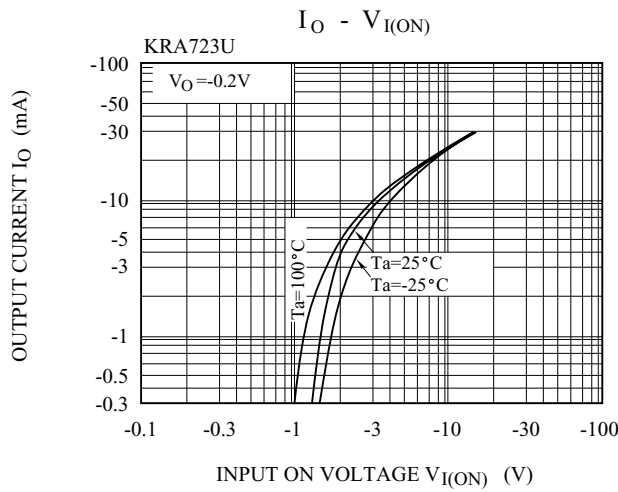
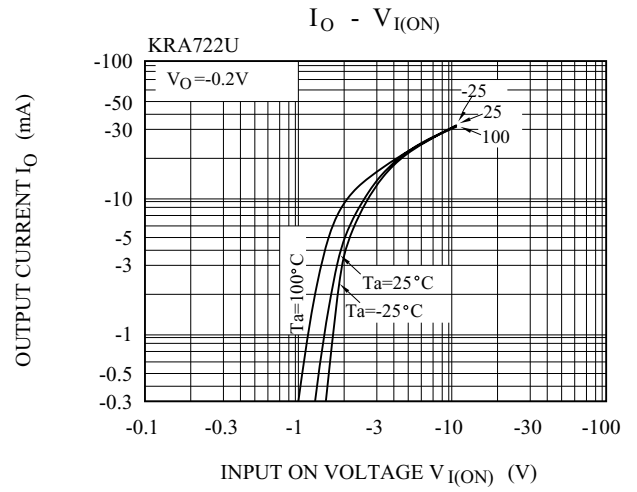
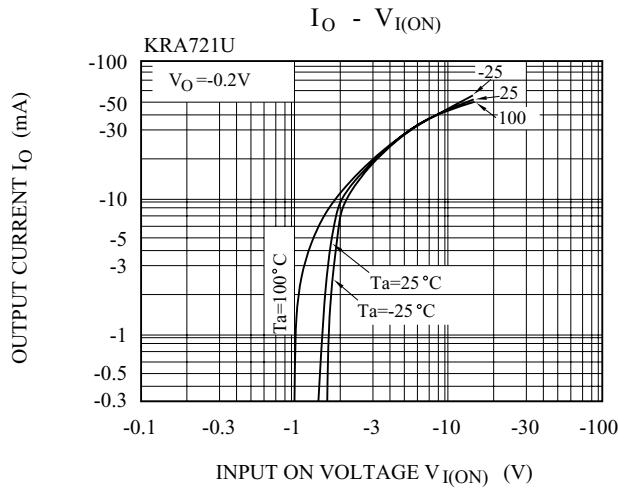
Note : * Characteristic of Transistor Only.

KRA721U~KRA726U

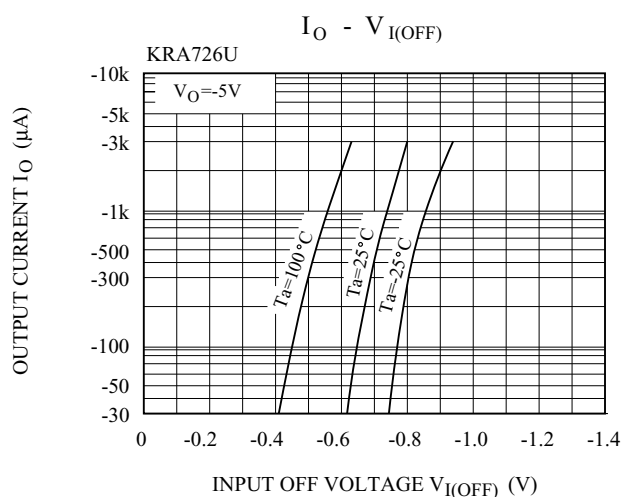
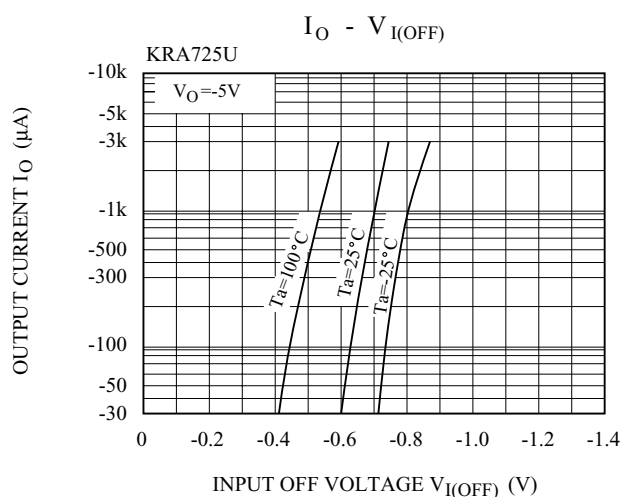
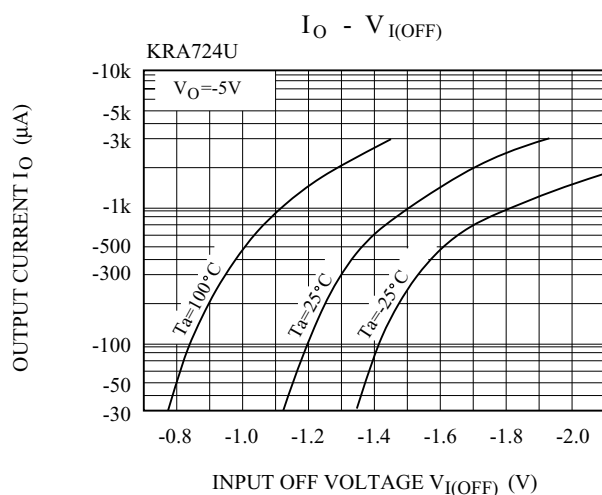
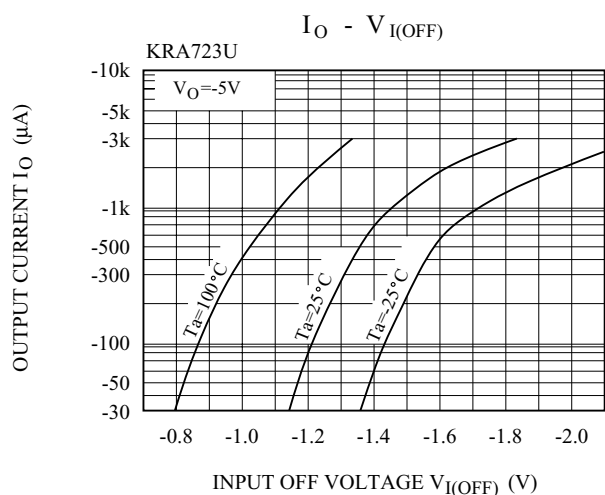
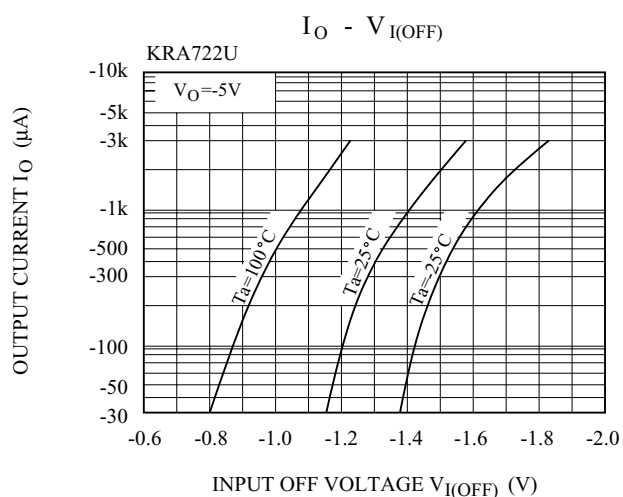
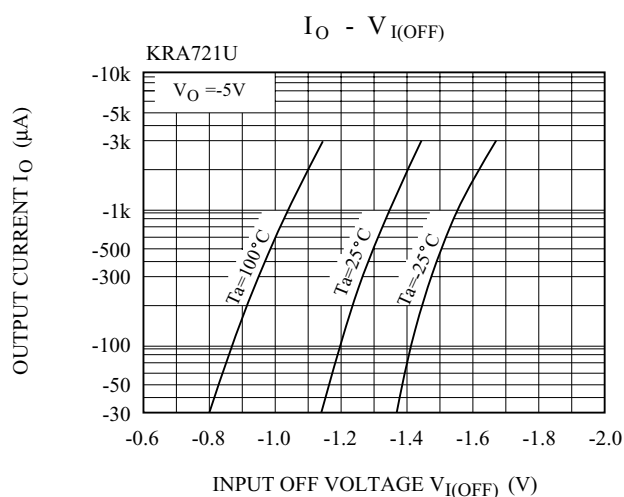
ELECTRICAL CHARACTERISTICS (Ta=25)

CHARACTERISTIC			SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRA721U	t _r	V _O =-5V V _{IN} =-5V R _L =1kΩ	-	0.07	-	μs
		KRA722U			-	0.06	-	
		KRA723U			-	0.2	-	
		KRA724U			-	0.24	-	
		KRA725U			-	0.02	-	
		KRA726U			-	0.07	-	
	Storage Time	KRA721U	t _{stg}		-	1.1	-	
		KRA722U			-	1.1	-	
		KRA723U			-	1.1	-	
		KRA724U			-	1.1	-	
		KRA725U			-	1.1	-	
		KRA726U			-	1.1	-	
	Fall Time	KRA721U	t _f		-	0.15	-	
		KRA722U			-	0.24	-	
		KRA723U			-	0.38	-	
		KRA724U			-	0.63	-	
		KRA725U			-	0.1	-	
		KRA726U			-	0.2	-	

KRA721U~KRA726U



KRA721U~KRA726U



KRA721U~KRA726U

