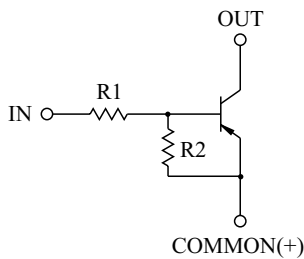


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

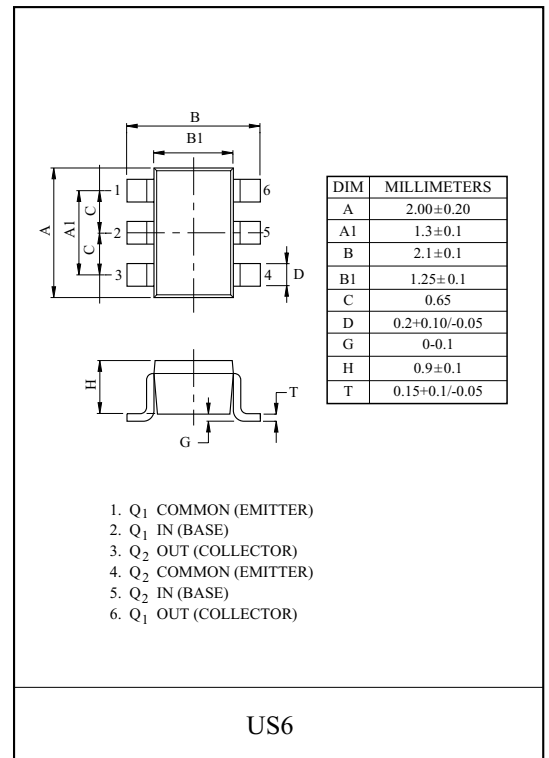
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.
- Suffix U : Qualified to AEC-Q101.
ex) KRA751U-RTK/HU

EQUIVALENT CIRCUIT

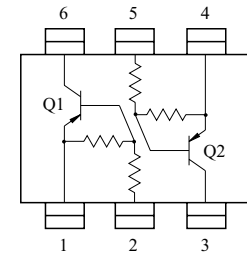


BIAS RESISTOR VALUES

TYPE NO.	R1(k)	R2(k)
KRA751U	4.7	4.7
KRA752U	10	10
KRA753U	22	22
KRA754U	47	47
KRA755U	2.2	47
KRA756U	4.7	47



EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATING (Ta=25)

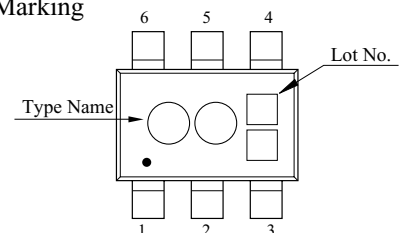
CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA751U 756U	V _O	-50	V
Input Voltage	KRA751U	V _I	-20, 10	V
	KRA752U		-30, 10	
	KRA753U		-40, 10	
	KRA754U		-40, 10	
	KRA755U		-12, 5	
	KRA756U		-20, 5	
Output Current	KRA751U 756U	I _O	-100	mA
Power Dissipation		P _D *	200	mW
Junction Temperature		T _j	-55~150	
Storage Temperature Range		T _{stg}	-55~150	

* Total Rating.

MARK SPEC

TYPE	KRA751U	KRA752U	KRA753U	KRA754U	KRA755U	KRA756U
MARK	PA	PB	PC	PD	PE	PF

Marking



KRA751U~KRA756U

ELECTRICAL CHARACTERISTICS (Ta=25)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRA751U 756U	$I_{O(OFF)}$	$V_O=-50V, V_I=0$	-	-	-500	nA
DC Current Gain	KRA751U	G_I	$V_O=-5V, I_O=-10mA$	30	55	-	
	KRA752U			50	80	-	
	KRA753U			70	120	-	
	KRA754U			80	200	-	
	KRA755U			80	200	-	
	KRA756U			80	200	-	
Output Voltage	KRA751U 756U	$V_{O(ON)}$	$I_O=-10mA, I_I=-0.5mA$	-	-0.1	-0.3	V
Input Voltage (ON)	KRA751U	$V_{I(ON)}$	$V_O=-0.2V, I_O=-5mA$	-	-1.5	-2.0	V
	KRA752U			-	-1.8	-2.4	
	KRA753U			-	-2.1	-3.0	
	KRA754U			-	-2.8	-5.0	
	KRA755U			-	-0.8	-1.1	
	KRA756U			-	-0.9	-1.3	
Input Voltage (OFF)	KRA751U 754U	$V_{I(OFF)}$	$V_O=-5V, I_O=-0.1mA$	-1.0	-1.2	-	V
	KRA755U 756U			-0.5	-0.65	-	
Transition Frequency	KRA751U 756U	f_T^*	$V_O=-10V, I_O=-5mA$	-	200	-	MHz
Input Current	KRA751U	I_I	$V_I=-5V$	-	-	-1.8	mA
	KRA752U			-	-	-0.88	
	KRA753U			-	-	-0.36	
	KRA754U			-	-	-0.18	
	KRA755U			-	-	-3.6	
	KRA756U			-	-	-1.8	
Input Resistor	KRA751U	R1	-	3.29	4.7	6.11	k
	KRA752U			7	10	13	
	KRA753U			15.4	22	28.6	
	KRA754U			32.9	47	61.1	
	KRA755U			1.54	2.2	2.86	
	KRA756U			3.29	4.7	6.11	
Resistor Ratio	KRA751U 754U	R2/R1	-	0.8	1.0	1.2	
	KRA755U			17	21	26	
	KRA756U			8	10	12	

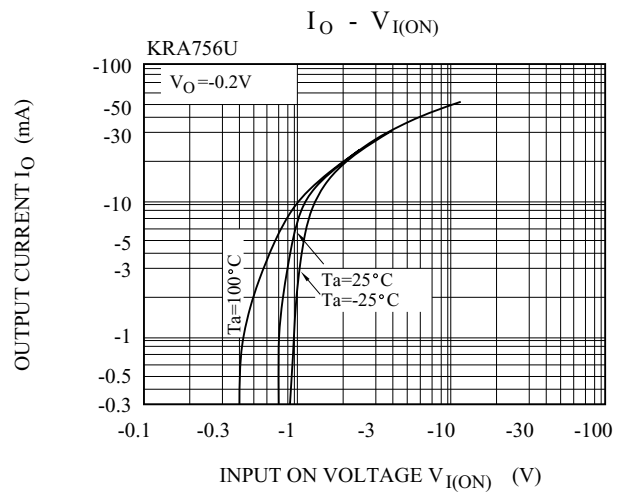
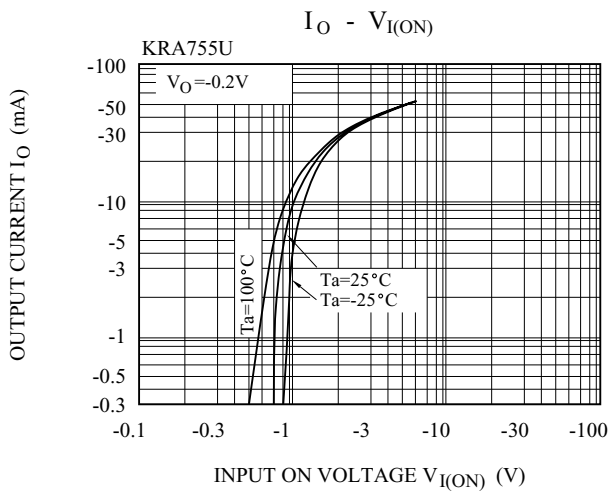
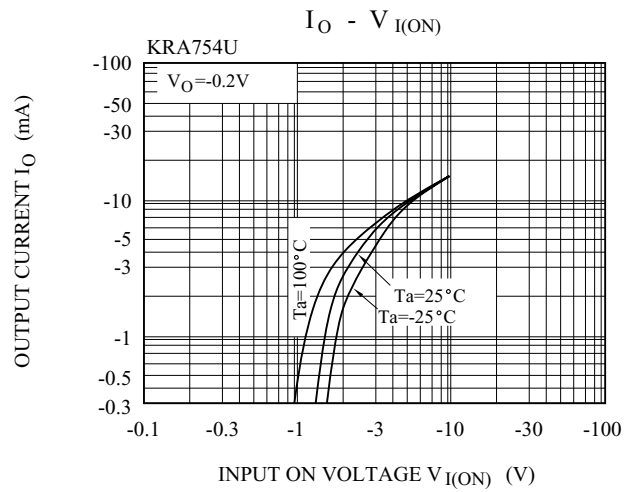
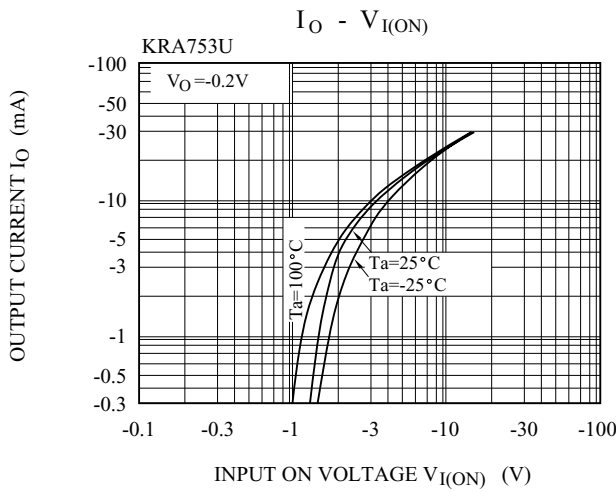
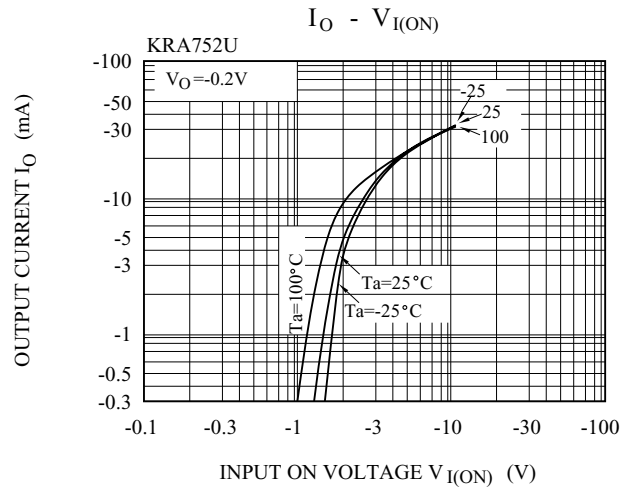
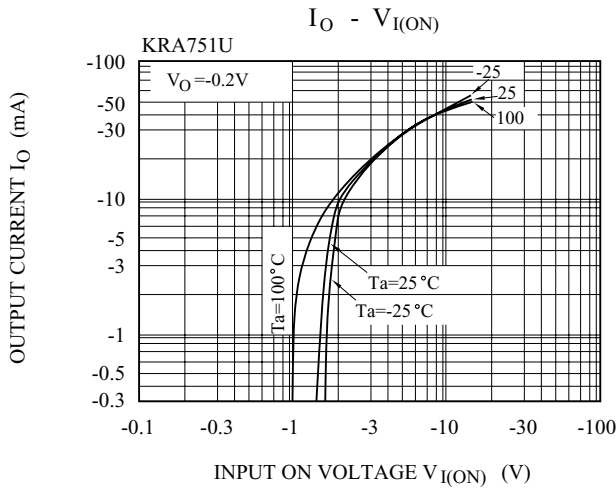
Note : * Characteristic of Transistor Only.

KRA751U~KRA756U

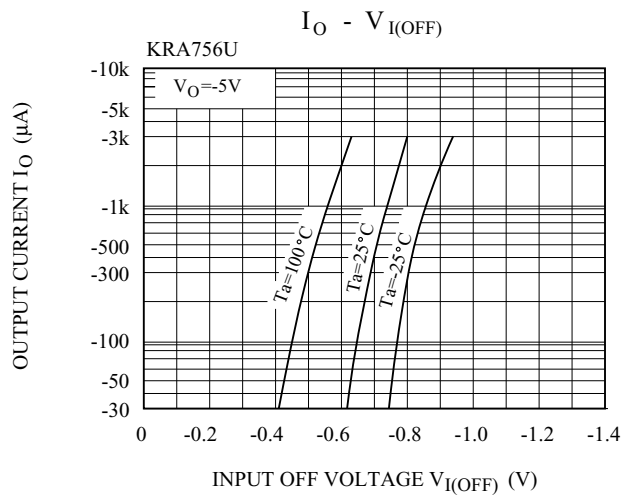
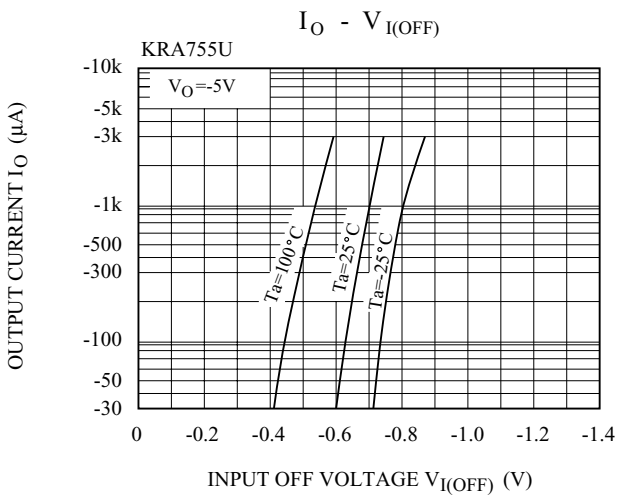
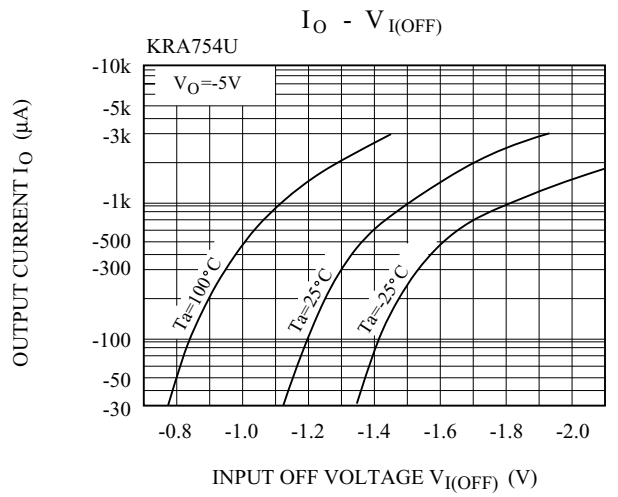
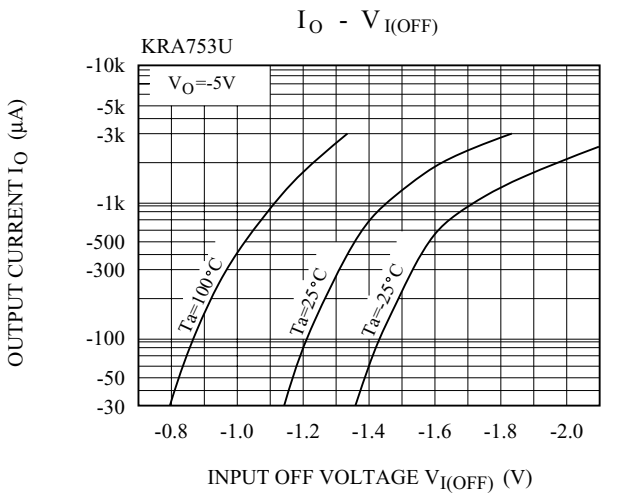
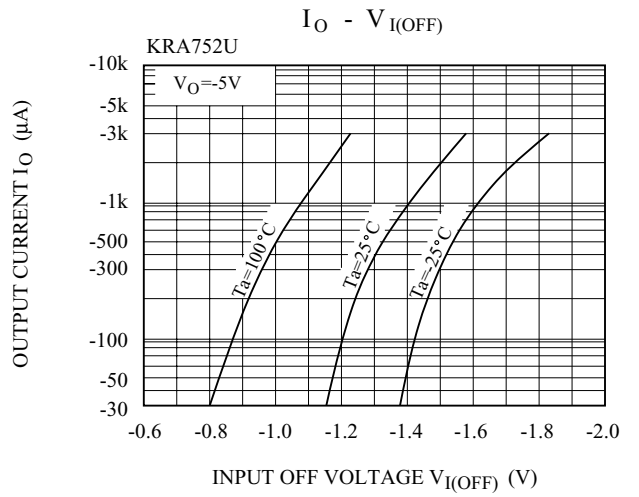
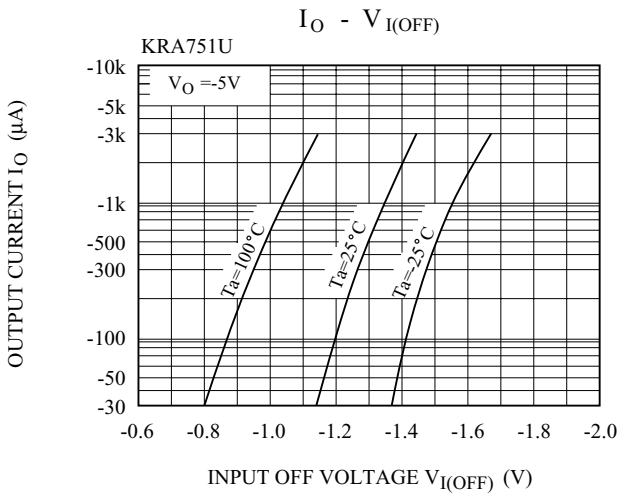
ELECTRICAL CHARACTERISTICS (Ta=25)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRA751U	V _O =-5V V _{IN} =-5V R _L =1k	-	0.07	-	μs
		KRA752U		-	0.06	-	
		KRA753U		-	0.2	-	
		KRA754U		-	0.24	-	
		KRA755U		-	0.02	-	
		KRA756U		-	0.07	-	
	Storage Time	KRA751U		-	1.1	-	
		KRA752U		-	1.1	-	
		KRA753U		-	1.1	-	
		KRA754U		-	1.1	-	
		KRA755U		-	1.1	-	
		KRA756U		-	1.1	-	
	Fall Time	KRA751U		-	0.15	-	
		KRA752U		-	0.24	-	
		KRA753U		-	0.38	-	
		KRA754U		-	0.63	-	
		KRA755U		-	0.1	-	
		KRA756U		-	0.2	-	

KRA751U~KRA756U



KRA751U~KRA756U



KRA751U~KRA756U

