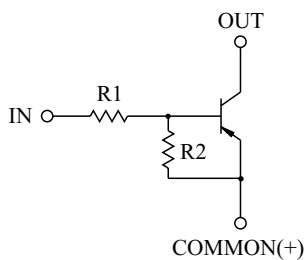


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION

FEATURES

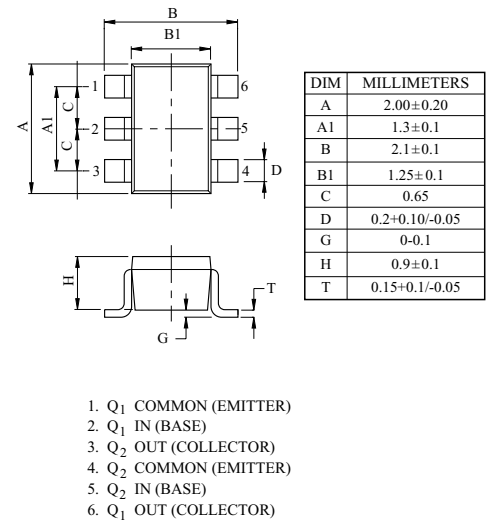
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- Suffix U : Qualified to AEC-Q101.
ex) KRA766U-RTK/HU

EQUIVALENT CIRCUIT



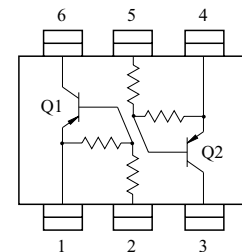
BIAS RESISTOR VALUES

TYPE NO.	R1(kΩ)	R2(kΩ)
KRA766U	1	10
KRA767U	2.2	2.2
KRA768U	2.2	10
KRA769U	4.7	10
KRA770U	10	4.7
KRA771U	47	10
KRA772U	100	100



US6

EQUIVALENT CIRCUIT (TOP VIEW)



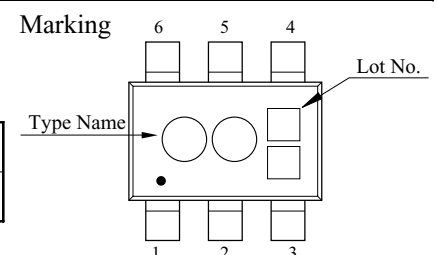
MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA766U 772U	V _O	-50	V
Input Voltage	KRA766U	V _I	-10, 5	V
	KRA767U		-12, 10	
	KRA768U		-12, 5	
	KRA769U		-20, 7	
	KRA770U		-30, 10	
	KRA771U		-40, 15	
	KRA772U		-40, 10	
Output Current	KRA766U 772U	I _O	-100	mA
Power Dissipation		P _D *	200	mW
Junction Temperature		T _j	-55~150	°C
Storage Temperature Range		T _{stg}	-55~150	°C

* : Total Rating.

MARK SPEC

TYPE	KRA766U	KRA767U	KRA768U	KRA769U	KRA770U	KRA771U	KRA772U
MARK	P2	P4	P5	P6	P7	P8	P9



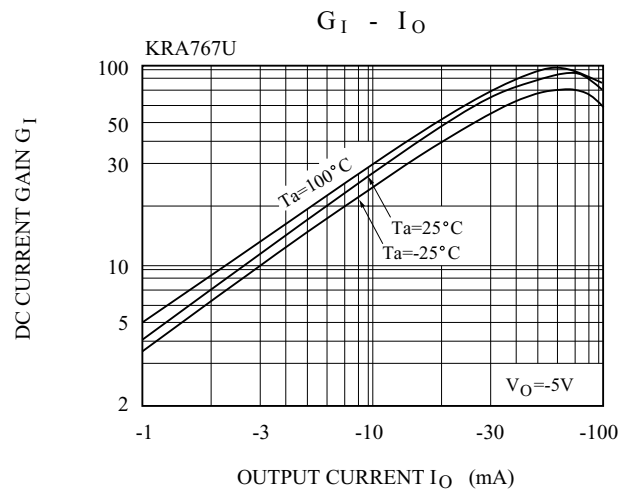
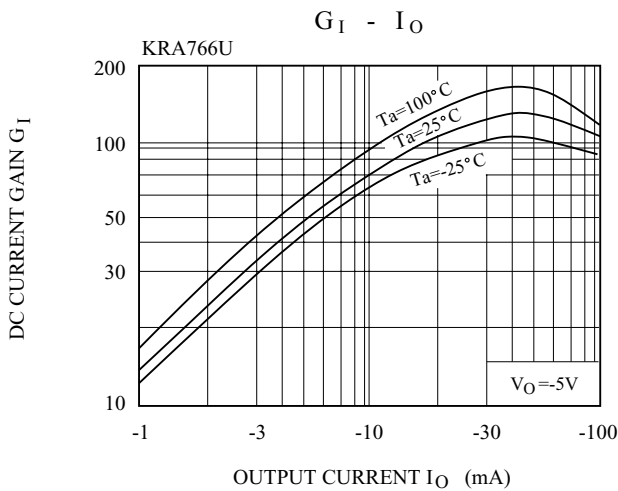
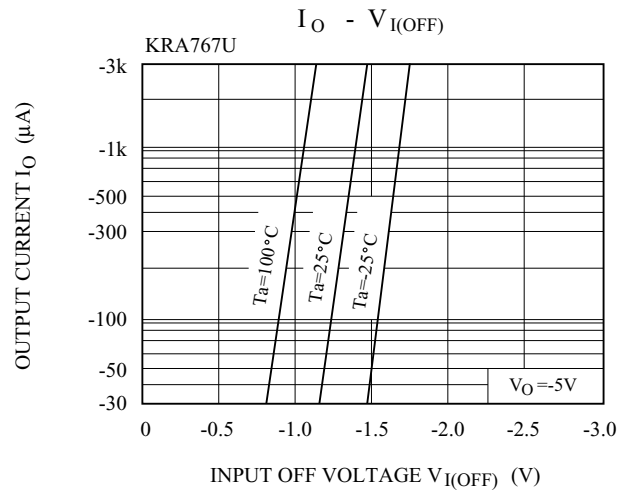
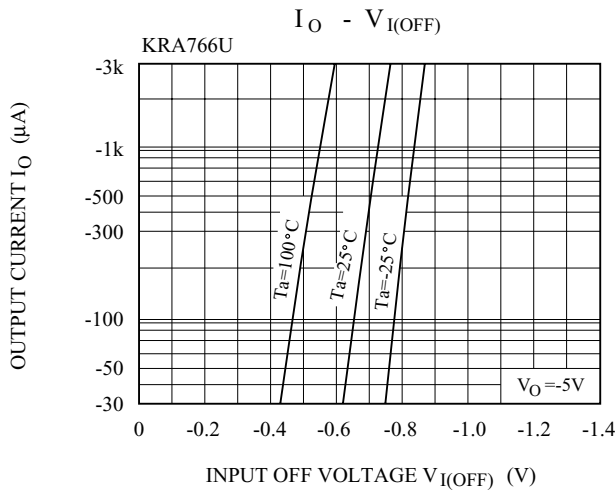
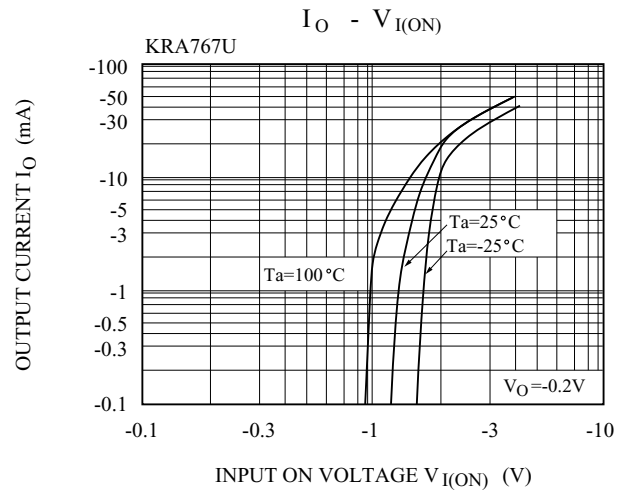
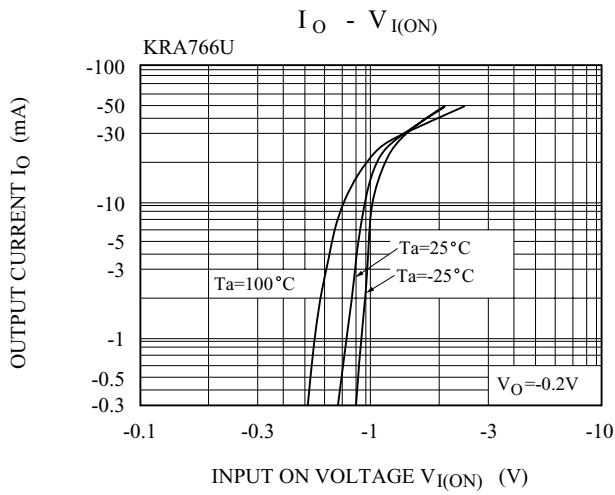
KRA766U-KRA772U

ELECTRICAL CHARACTERISTICS (Ta=25°C)

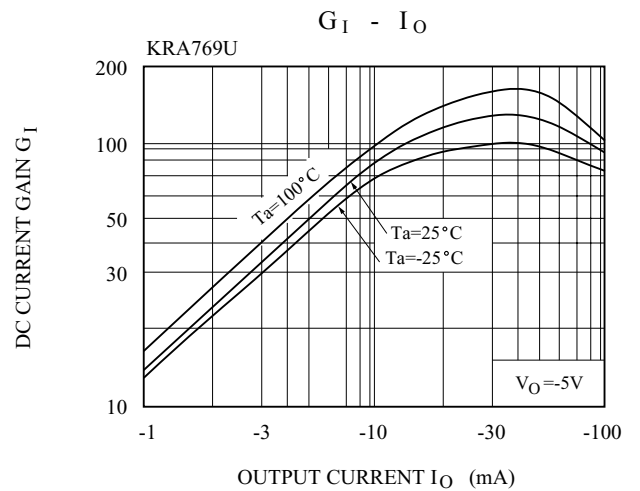
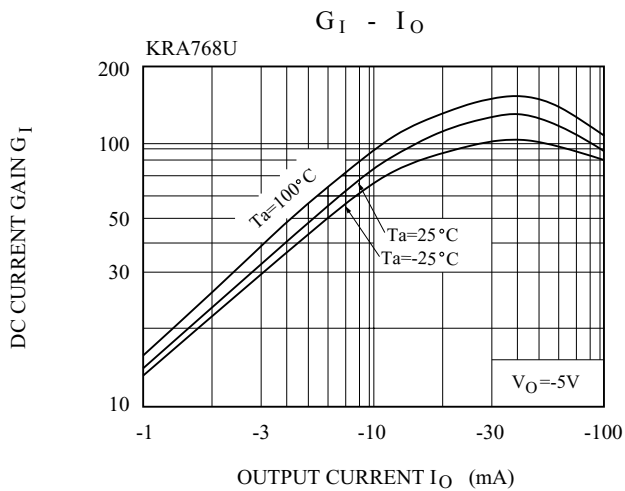
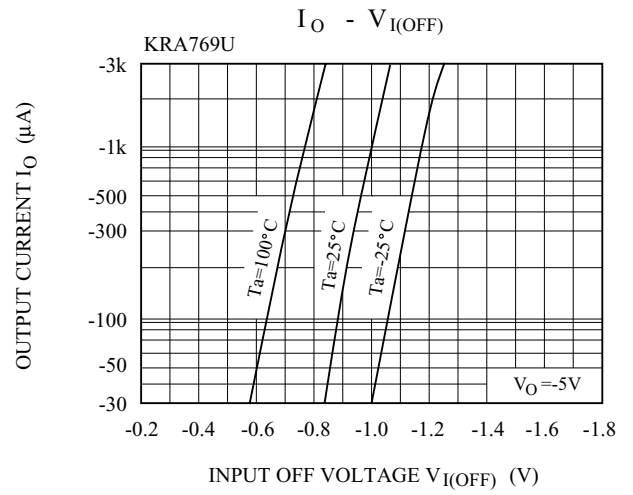
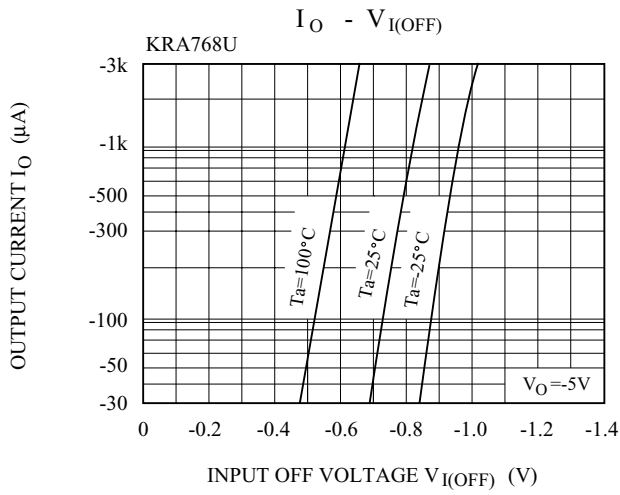
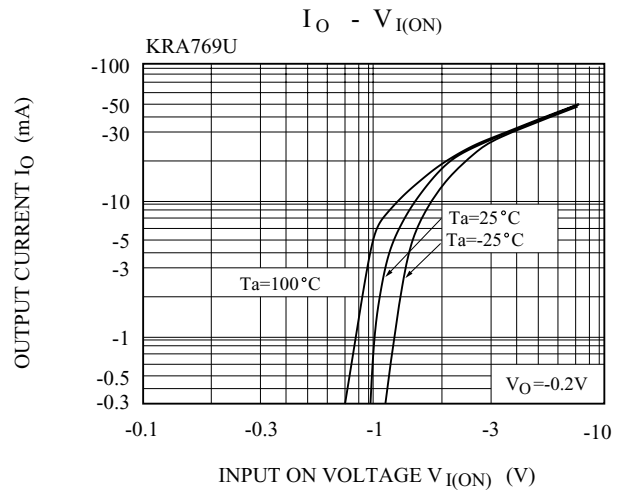
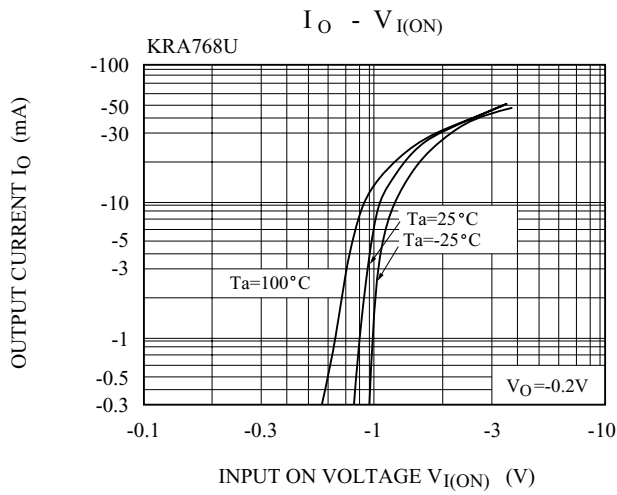
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRA766U 772U	$I_{O(OFF)}$	$V_O = -50V, V_I = 0$	-	-	-500	nA
DC Current Gain	KRA766U	G_I	$V_O = -5V, I_O = -5mA$	33	-	-	
	KRA767U		$V_O = -5V, I_O = -20mA$	20	-	-	
	KRA768U		$V_O = -5V, I_O = -10mA$	33	-	-	
	KRA769U		$V_O = -5V, I_O = -10mA$	30	-	-	
	KRA770U		$V_O = -5V, I_O = -10mA$	24	-	-	
	KRA771U		$V_O = -5V, I_O = -5mA$	33	-	-	
	KRA772U		$V_O = -5V, I_O = -5mA$	62	-	-	
Output Voltage	KRA766U	$V_{O(ON)}$	$I_O = -10mA, I_I = -0.5mA$	-	-	-0.3	V
	KRA767U		$I_O = -10mA, I_I = -0.5mA$	-	-0.1	-0.3	
	KRA768U		$I_O = -10mA, I_I = -0.5mA$	-	-	-0.3	
	KRA769U		$I_O = -10mA, I_I = -0.5mA$	-	-0.1	-0.3	
	KRA770U		$I_O = -10mA, I_I = -0.5mA$	-	-0.1	-0.3	
	KRA771U		$I_O = -10mA, I_I = -0.5mA$	-	-0.1	-0.3	
	KRA772U		$I_O = -5mA, I_I = -0.25mA$	-	-0.1	-0.3	
Input Voltage (ON)	KRA766U	$V_{I(ON)}$	$V_O = -0.3V, I_O = -20mA$	-	-0.98	-3	V
	KRA767U		$V_O = -0.3V, I_O = -20mA$	-	-1.83	-3	
	KRA768U		$V_O = -0.3V, I_O = -20mA$	-	-1.22	-3	
	KRA769U		$V_O = -0.3V, I_O = -20mA$	-	-1.76	-2.5	
	KRA770U		$V_O = -0.3V, I_O = -2mA$	-	-2	-3	
	KRA771U		$V_O = -0.3V, I_O = -2mA$	-	-3.9	-5	
	KRA772U		$V_O = -0.3V, I_O = -1mA$	-	-1.64	-3	
Input Voltage (OFF)	KRA766U	$V_{I(OFF)}$	$V_{CC} = -5V, I_O = -100 \mu A$	-0.3	-0.63	-	V
	KRA767U			-0.5	-1.15	-	
	KRA768U			-0.3	-0.67	-	
	KRA769U			-0.3	-0.82	-	
	KRA770U			-0.8	-1.68	-	
	KRA771U			-1	-3.09	-	
	KRA772U			-0.5	-1.17	-	
Transition Frequency	KRA766U 772U	f_T^*	$V_O = -10V, I_O = -5mA$	-	250	-	MHz
Input Current	KRA766U	I_I	$V_I = -5V$	-	-	-7.2	mA
	KRA767U			-	-	-3.8	
	KRA768U			-	-	-3.8	
	KRA769U			-	-	-1.8	
	KRA770U			-	-	-0.88	
	KRA771U			-	-	-0.16	
	KRA772U			-	-	-0.15	
Input Resistor	KRA766U	R1	-	0.7	1	1.3	kΩ
	KRA767U			1.54	2.2	2.86	
	KRA768U			1.54	2.2	2.86	
	KRA769U			3.29	4.7	6.11	
	KRA770U			7	10	13	
	KRA771U			32.9	47	61.1	
	KRA772U			70	100	130	
Resistor Ratio	KRA766U	R2/R1	-	8	10	12	
	KRA767U			0.8	1.0	1.2	
	KRA768U			3.6	4.5	5.5	
	KRA769U			1.7	2.1	2.6	
	KRA770U			0.37	0.47	0.57	
	KRA771U			0.17	0.21	0.26	
	KRA772U			0.8	1.0	1.2	

Note : * Characteristic of Transistor Only.

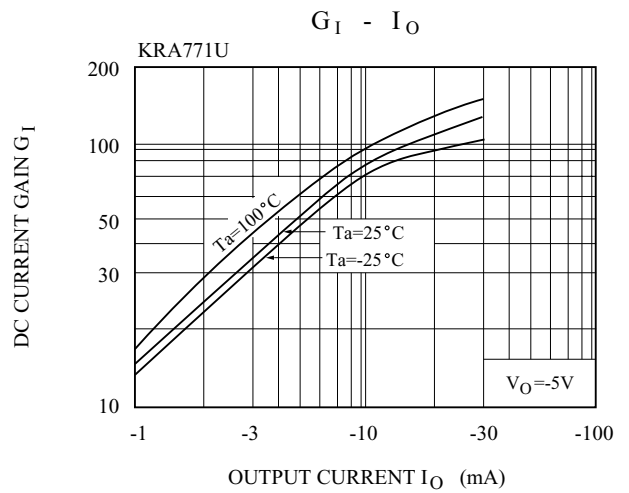
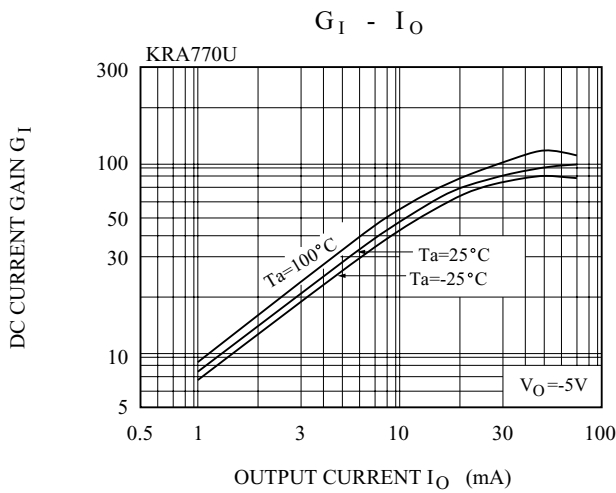
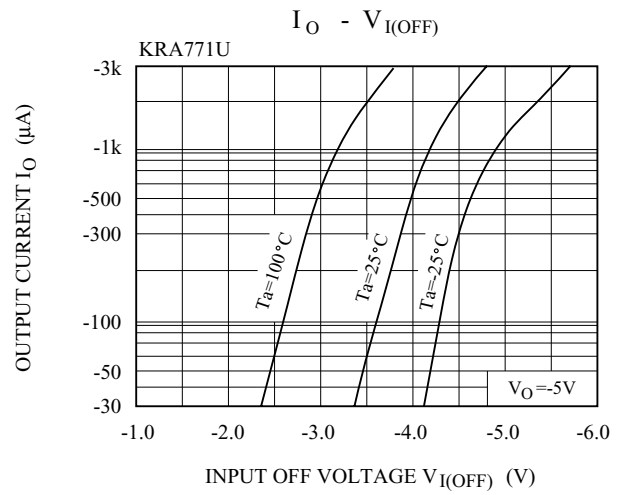
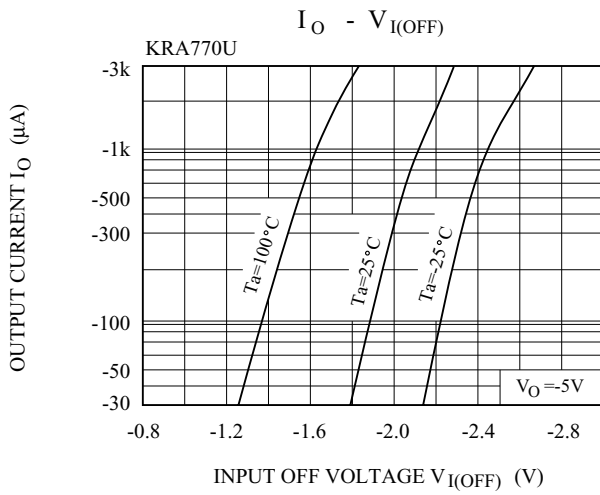
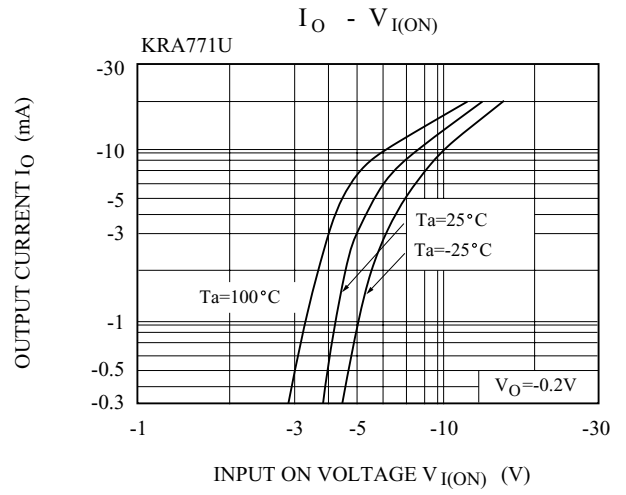
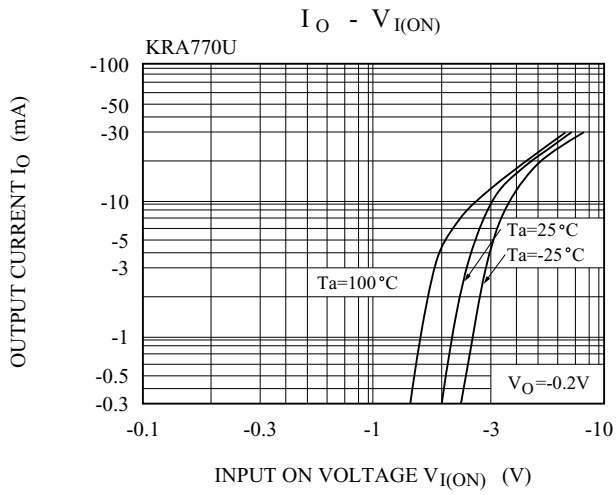
KRA766U-KRA772U



KRA766U-KRA772U



KRA766U-KRA772U



KRA766U-KRA772U

