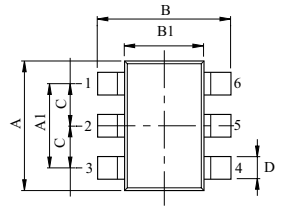
KRA736U~KRA742U

EPITAXIAL PLANAR PNP TRANSISTOR

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.

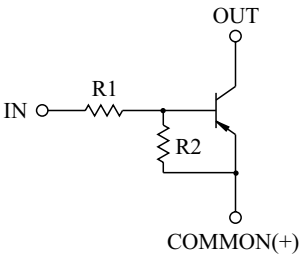


DIM	MILLIMETERS
A	2.00±0.20
A1	1.3±0.1
B	2.1±0.1
B1	1.25±0.1
C	0.65
D	0.2+0.10/-0.05
G	0-0.1
H	0.9±0.1
T	0.15+0.1/-0.05

1. Q_1 COMMON (EMITTER)
2. Q_2 COMMON (EMITTER)
3. Q_2 IN (BASE)
4. Q_2 OUT (COLLECTOR)
5. Q_1 IN (BASE)
6. Q_1 OUT (COLLECTOR)

US6

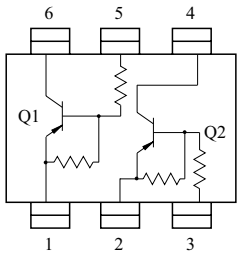
EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(kΩ)	R2(kΩ)
KRA736U	1	10
KRA737U	2.2	2.2
KRA738U	2.2	10
KRA739U	4.7	10
KRA740U	10	4.7
KRA741U	47	10
KRA742U	100	100

EQUIVALENT CIRCUIT (TOP VIEW)

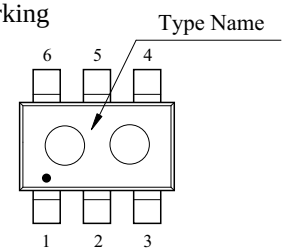


MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA736U ~742U	V_O	-50	V
Input Voltage	KRA736U	V_I	-10, 5	V
	KRA737U		-12, 10	
	KRA738U		-12, 5	
	KRA739U		-20, 7	
	KRA740U		-30, 10	
	KRA741U		-40, 15	
	KRA742U		-40, 10	
Output Current	KRA736U ~742U	I_O	-100	mA
Power Dissipation		P_D *	200	mW
Junction Temperature		T_j	150	℃
Storage Temperature Range		T_{stg}	-55 ~ 150	℃

* : Total Rating.

Marking



MARK SPEC

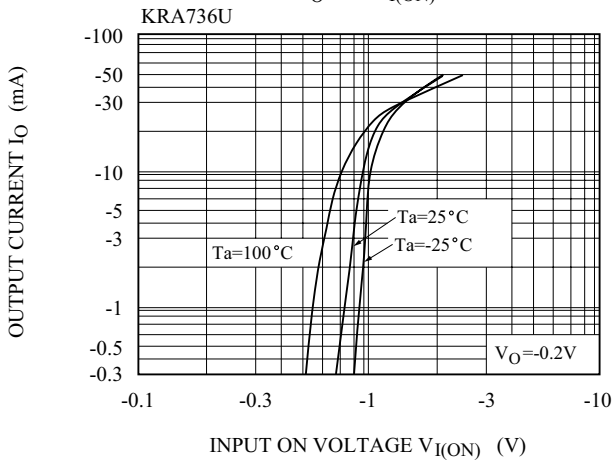
TYPE	KRA736U	KRA737U	KRA738U	KRA739U	KRA740U	KRA741U	KRA742U
MARK	J2	J4	J5	J6	J7	J8	J9

ELECTRICAL CHARACTERISTICS (Ta=25℃)

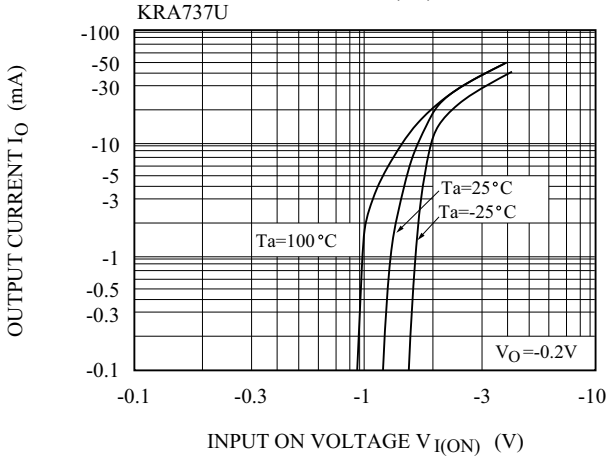
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRA736U～742U	$I_{O(OFF)}$	V_O=-50V, V_I=0	-	-	-500	nA
DC Current Gain	KRA736U	G_I	V_O=-5V, I_O=-5mA	33	-	-	
	KRA737U		V_O=-5V, I_O=-20mA	20	-	-	
	KRA738U		V_O=-5V, I_O=-10mA	33	-	-	
	KRA739U		V_O=-5V, I_O=-10mA	30	-	-	
	KRA740U		V_O=-5V, I_O=-10mA	24	-	-	
	KRA741U		V_O=-5V, I_O=-5mA	33	-	-	
	KRA742U		V_O=-5V, I_O=-5mA	62	-	-	
Output Voltage	KRA736U	$V_{O(ON)}$	I_O=-10mA, I_I=-0.5mA	-	-	-0.3	V
	KRA737U		I_O=-10mA, I_I=-0.5mA	-	-0.1	-0.3	
	KRA738U		I_O=-10mA, I_I=-0.5mA	-	-	-0.3	
	KRA739U		I_O=-10mA, I_I=-0.5mA	-	-0.1	-0.3	
	KRA740U		I_O=-10mA, I_I=-0.5mA	-	-0.1	-0.3	
	KRA741U		I_O=-10mA, I_I=-0.5mA	-	-0.1	-0.3	
	KRA742U		I_O=-5mA, I_I=-0.25mA	-	-0.1	-0.3	
Input Voltage (ON)	KRA736U	$V_{I(ON)}$	V_O=-0.3V, I_O=-20mA	-	-0.98	-3	V
	KRA737U		V_O=-0.3V, I_O=-20mA	-	-1.83	-3	
	KRA738U		V_O=-0.3V, I_O=-20mA	-	-1.22	-3	
	KRA739U		V_O=-0.3V, I_O=-20mA	-	-1.76	-2.5	
	KRA740U		V_O=-0.3V, I_O=-2mA	-	-2	-3	
	KRA741U		V_O=-0.3V, I_O=-2mA	-	-3.9	-5	
	KRA742U		V_O=-0.3V, I_O=-1mA	-	-1.64	-3	
Input Voltage (OFF)	KRA736U	$V_{I(OFF)}$	V_{CC}=-5V, I_O=-100㎂	-0.3	-0.63	-	V
	KRA737U			-0.5	-1.15	-	
	KRA738U			-0.3	-0.67	-	
	KRA739U			-0.3	-0.82	-	
	KRA740U			-0.8	-1.68	-	
	KRA741U			-1	-3.09	-	
	KRA742U			-0.5	-1.17	-	
Transition Frequency	KRA736U～742U	f_T*	V_O=-10V, I_O=-5mA	-	250	-	MHz
Input Current	KRA736U	I_I	V_I=-5V	-	-	-7.2	mA
	KRA737U			-	-	-3.8	
	KRA738U			-	-	-3.8	
	KRA739U			-	-	-1.8	
	KRA740U			-	-	-0.88	
	KRA741U			-	-	-0.16	
	KRA742U			-	-	-0.15	

Note : * Characteristic of Transistor Only.

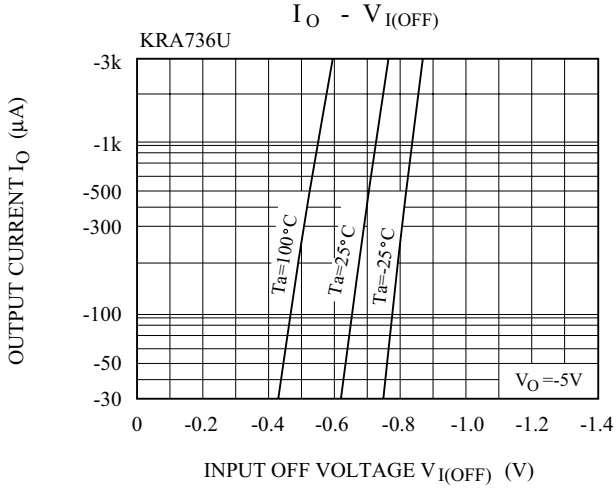
I_O - $V_{I(ON)}$



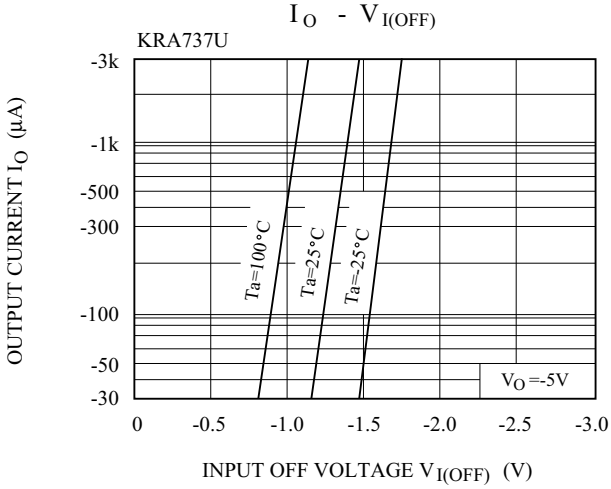
I_O - $V_{I(ON)}$



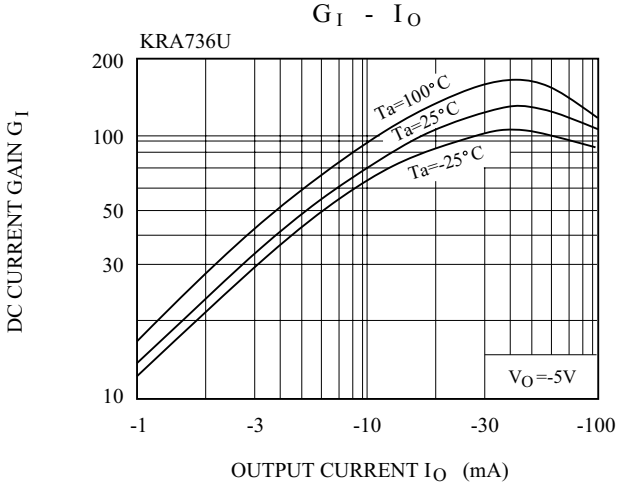
I_O - $V_{I(OFF)}$



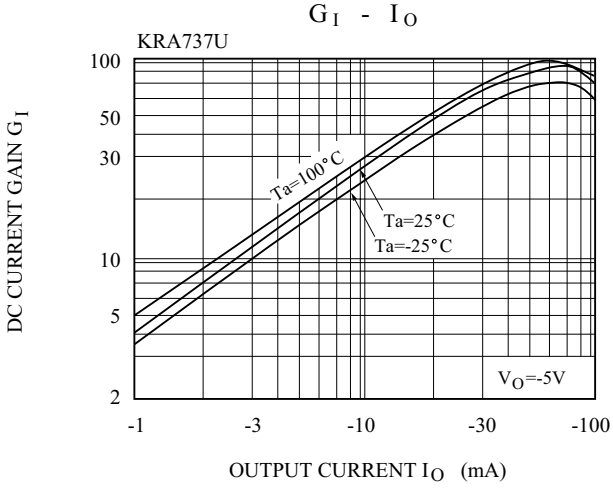
I_O - $V_{I(OFF)}$



G_I - I_O

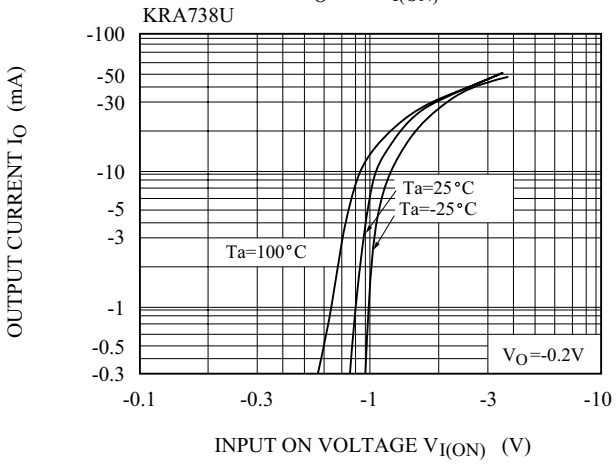


G_I - I_O



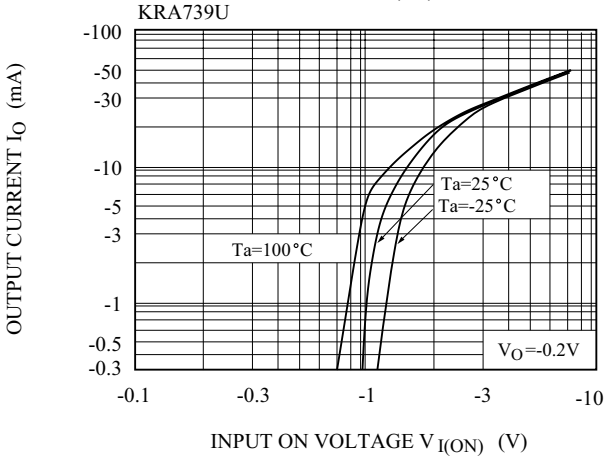
I_O - $V_{I(ON)}$

KRA738U



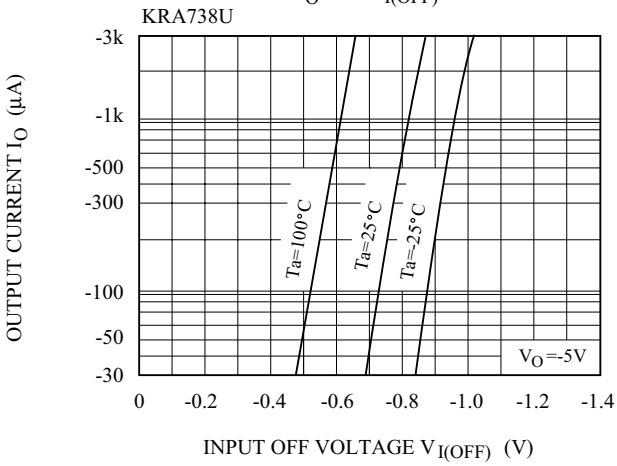
I_O - $V_{I(ON)}$

KRA739U



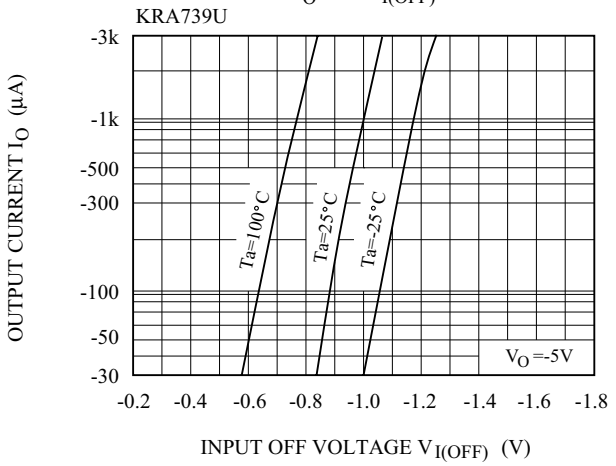
I_O - $V_{I(OFF)}$

KRA738U



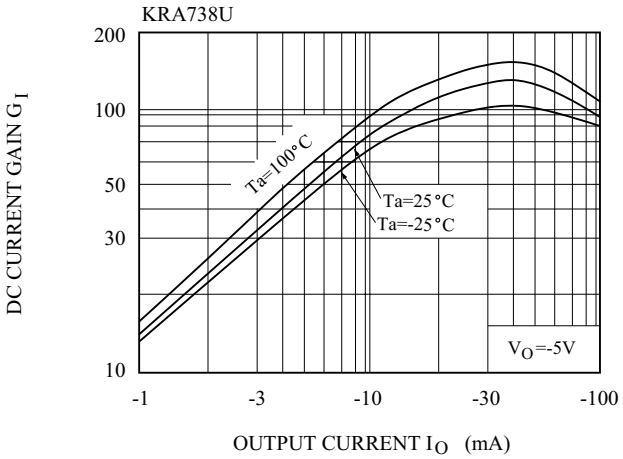
I_O - $V_{I(OFF)}$

KRA739U



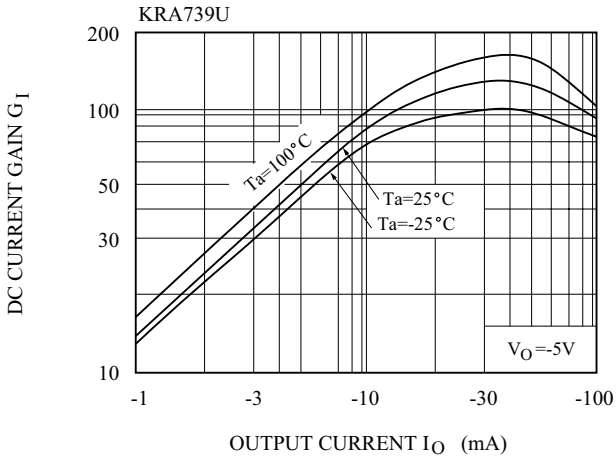
G_I - I_O

KRA738U

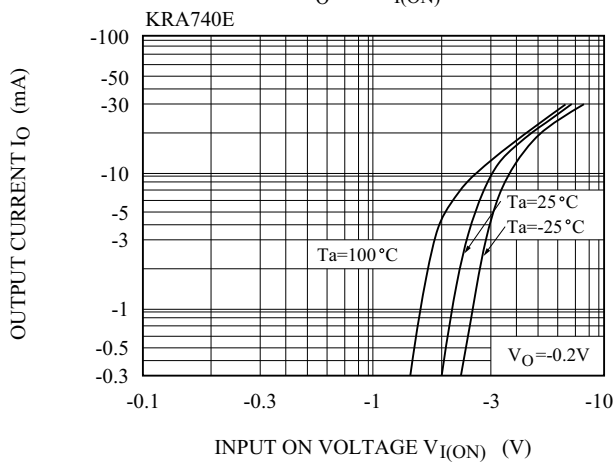


G_I - I_O

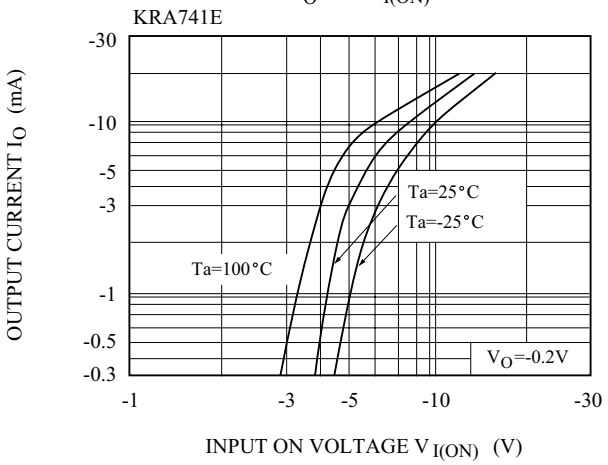
KRA739U



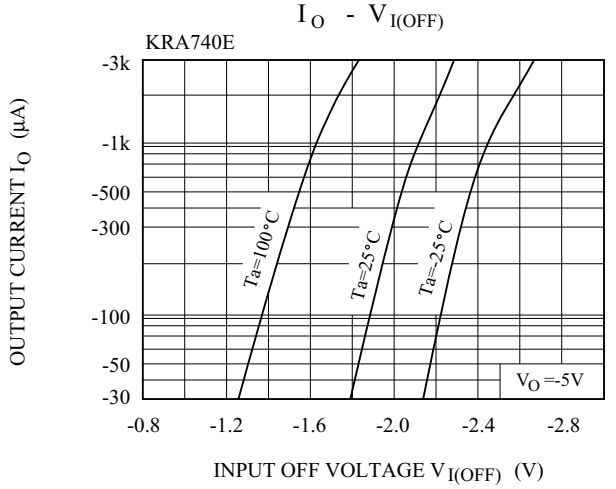
I_O - $V_{I(ON)}$



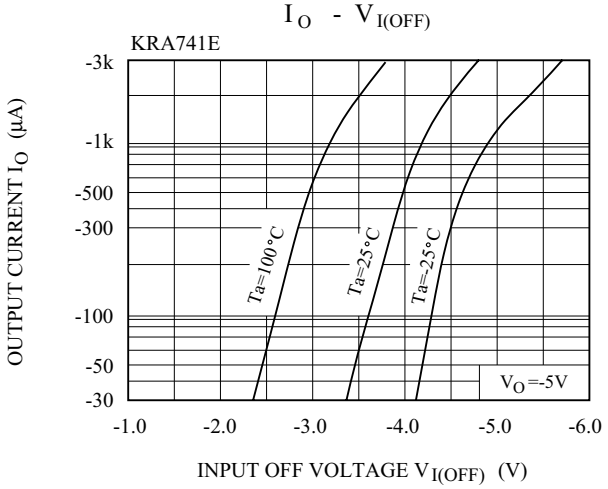
I_O - $V_{I(ON)}$



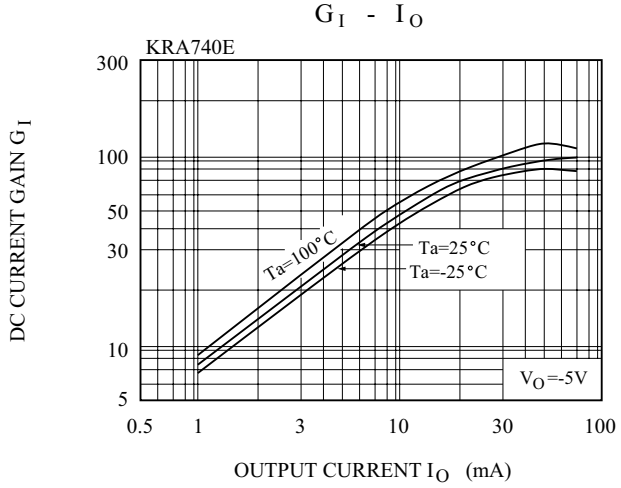
I_O - $V_{I(OFF)}$



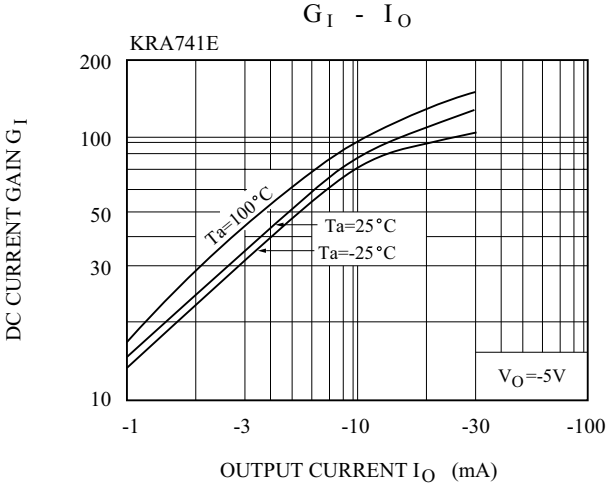
I_O - $V_{I(OFF)}$



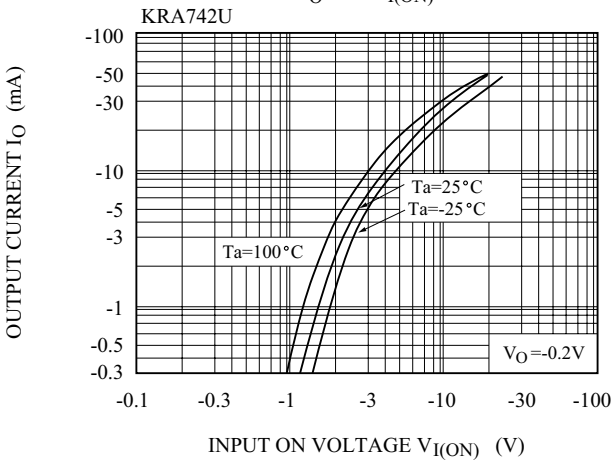
G_I - I_O



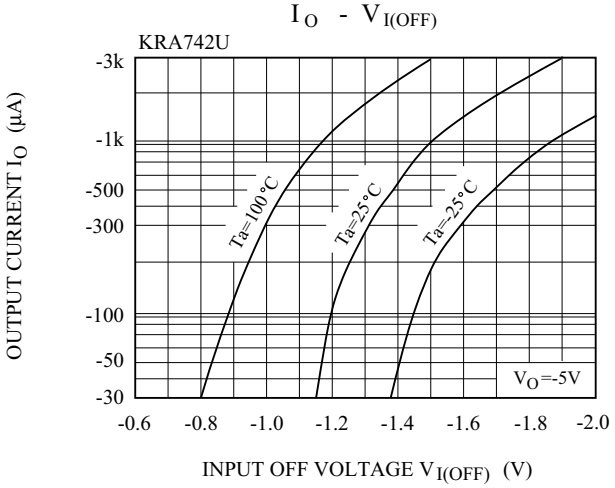
G_I - I_O



I_O - $V_{I(ON)}$



I_O - $V_{I(OFF)}$



G_I - I_O

