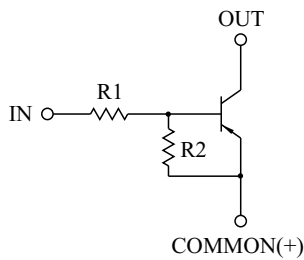


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION

FEATURES

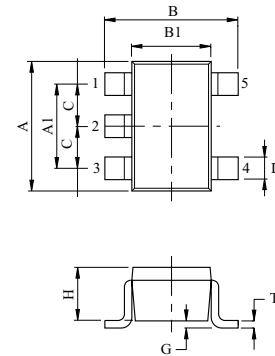
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRA566U	1	10
KRA567U	2.2	2.2
KRA568U	2.2	10
KRA569U	4.7	10
KRA570U	10	4.7
KRA571U	47	10
KRA572U	100	100

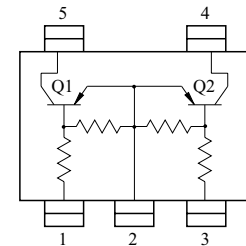


DIM	MILLIMETERS
A	2.00±0.20
A1	1.3±0.1
B	2.1±0.1
B1	1.25±0.1
C	0.65
D	0.2+0.10/-0.05
G	0-0.1
H	0.9±0.1
T	0.15+0.1/-0.05

1. Q₁ IN (BASE)
2. Q₁, Q₂ COMMON (EMITTER)
3. Q₂ IN (BASE)
4. Q₂ OUT (COLLECTOR)
5. Q₁ OUT (COLLECTOR)

USV

EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATING (Ta=25°C)

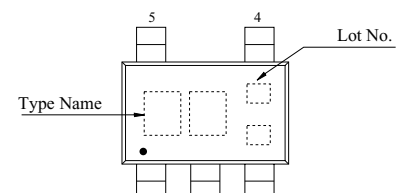
CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA566U 572U	V _O	-50	V
Input Voltage	KRA566U	V _I	-10, 5	V
	KRA567U		-12, 10	
	KRA568U		-12, 5	
	KRA569U		-20, 7	
	KRA570U		-30, 10	
	KRA571U		-40, 15	
	KRA572U		-40, 10	
Output Current	KRA566U 572U	I _O	-100	mA
Power Dissipation		P _D *	200	mW
Junction Temperature		T _j	-55~150	°C
Storage Temperature Range		T _{stg}	-55~150	°C

* : Total Rating.

Marking

MARK SPEC

TYPE	KRA566U	KRA567U	KRA568U	KRA569U	KRA570U	KRA571U	KRA572U
MARK	P2	P4	P5	P6	P7	P8	P9



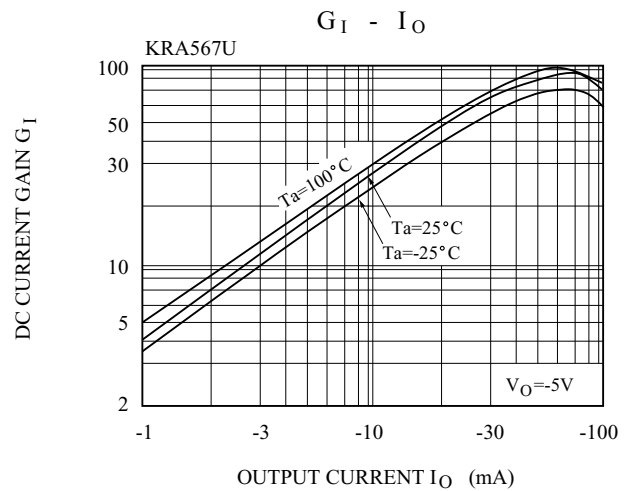
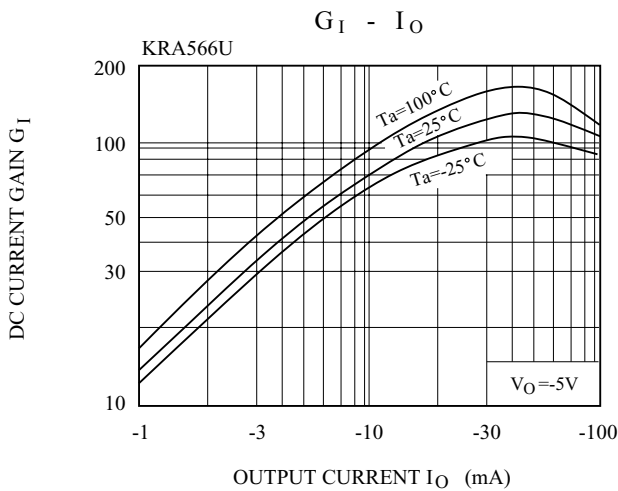
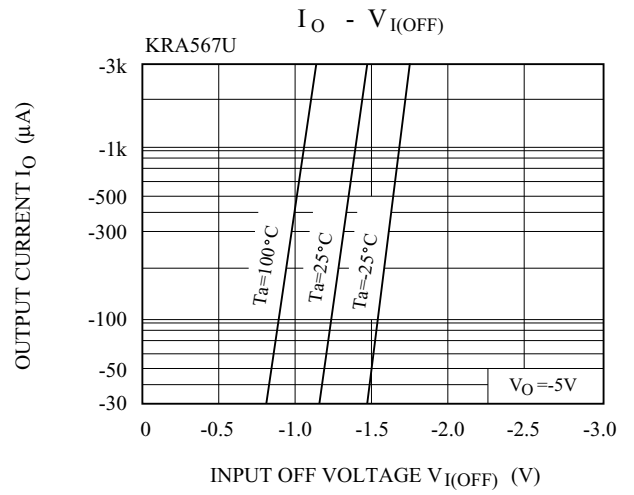
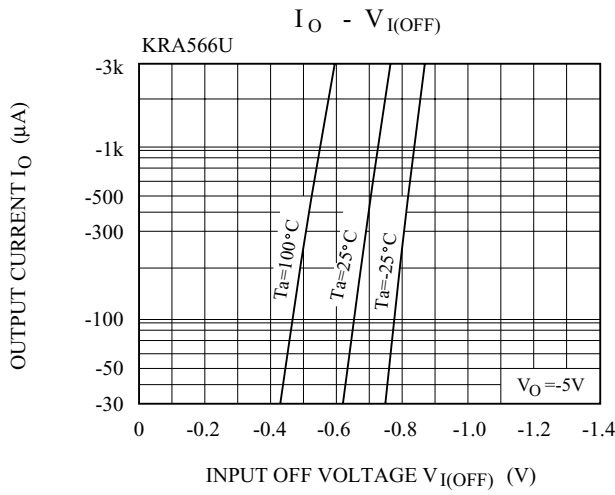
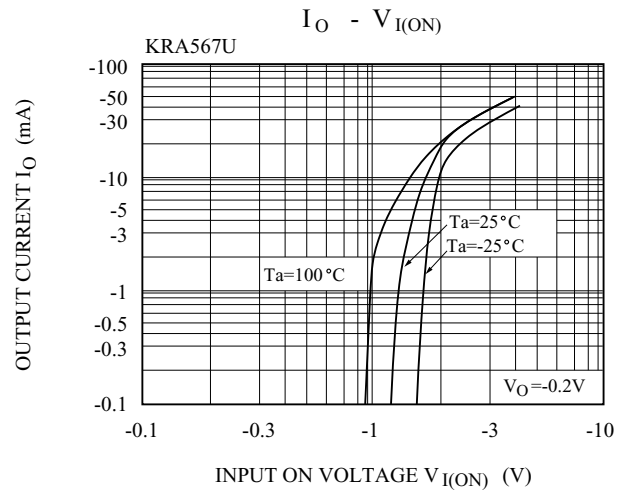
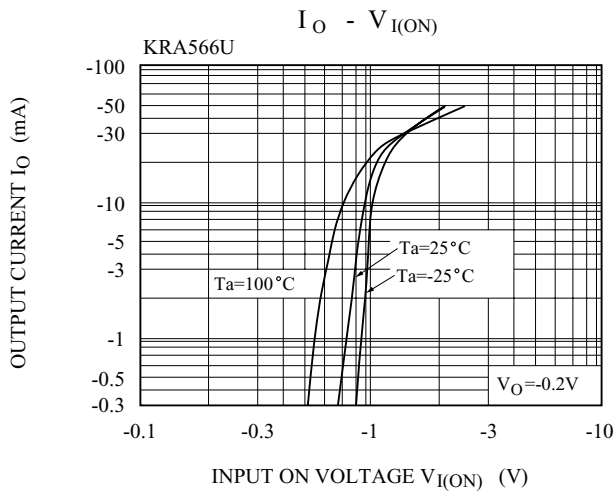
KRA566U-KRA572U

ELECTRICAL CHARACTERISTICS (Ta=25°C)

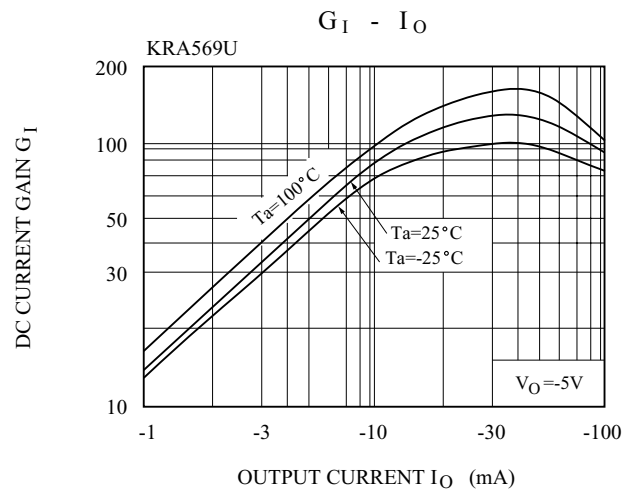
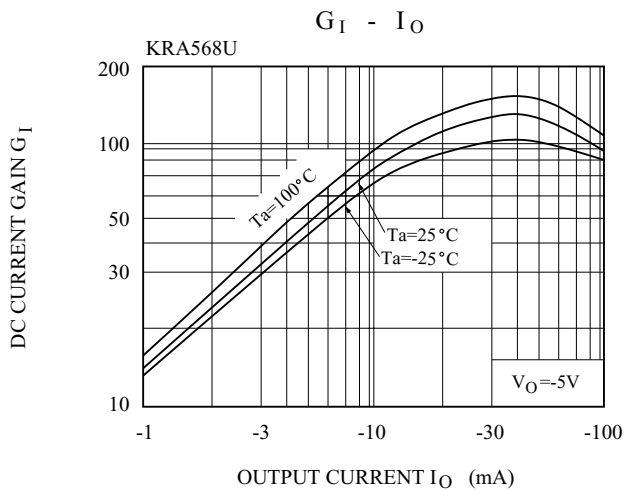
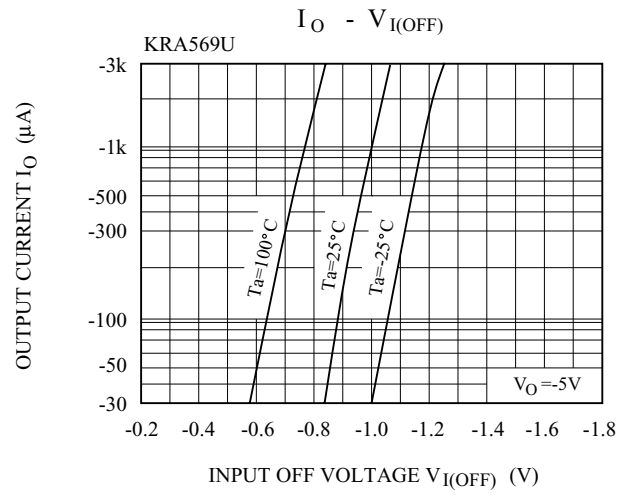
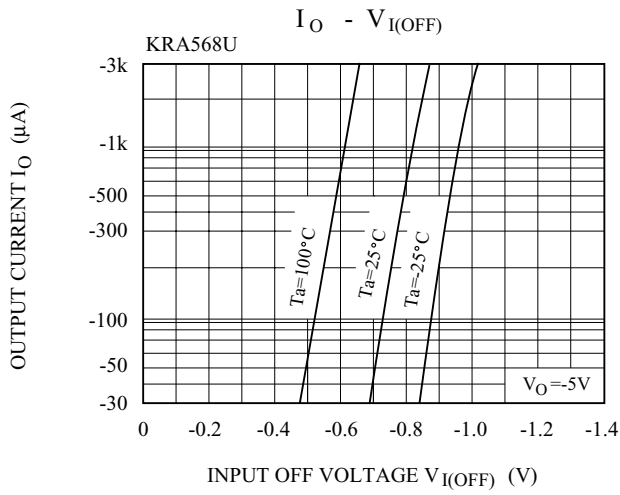
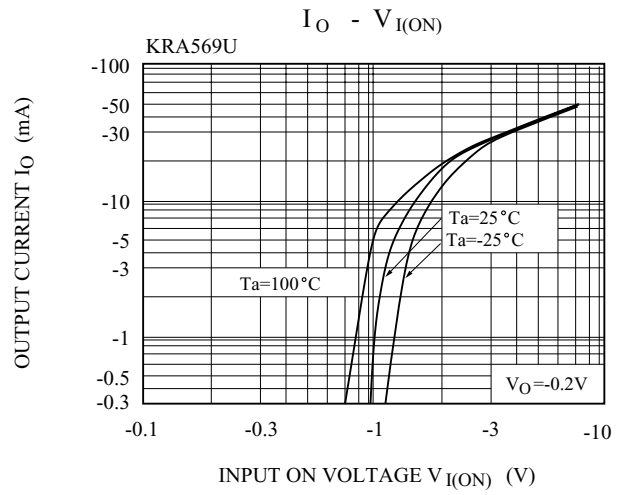
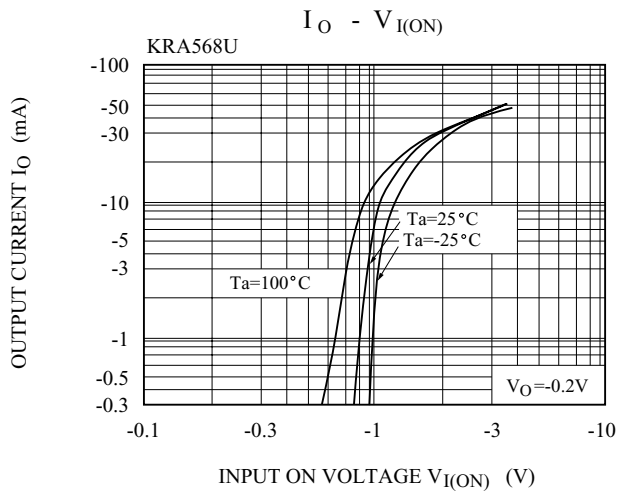
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRA566U 572U	$I_{O(OFF)}$	$V_O=-50V, V_I=0$	-	-	-500	nA
DC Current Gain	KRA566U	G_I	$V_O=-5V, I_O=-5mA$	33	-	-	
	KRA567U		$V_O=-5V, I_O=-20mA$	20	-	-	
	KRA568U		$V_O=-5V, I_O=-10mA$	33	-	-	
	KRA569U		$V_O=-5V, I_O=-10mA$	30	-	-	
	KRA570U		$V_O=-5V, I_O=-10mA$	24	-	-	
	KRA571U		$V_O=-5V, I_O=-5mA$	33	-	-	
	KRA572U		$V_O=-5V, I_O=-5mA$	62	-	-	
Output Voltage	KRA566U	$V_{O(ON)}$	$I_O=-10mA, I_I=-0.5mA$	-	-	-0.3	V
	KRA567U		$I_O=-10mA, I_I=-0.5mA$	-	-0.1	-0.3	
	KRA568U		$I_O=-10mA, I_I=-0.5mA$	-	-	-0.3	
	KRA569U		$I_O=-10mA, I_I=-0.5mA$	-	-0.1	-0.3	
	KRA570U		$I_O=-10mA, I_I=-0.5mA$	-	-0.1	-0.3	
	KRA571U		$I_O=-10mA, I_I=-0.5mA$	-	-0.1	-0.3	
	KRA572U		$I_O=-5mA, I_I=-0.25mA$	-	-0.1	-0.3	
Input Voltage (ON)	KRA566U	$V_{I(ON)}$	$V_O=-0.3V, I_O=-20mA$	-	-0.98	-3	V
	KRA567U		$V_O=-0.3V, I_O=-20mA$	-	-1.83	-3	
	KRA568U		$V_O=-0.3V, I_O=-20mA$	-	-1.22	-3	
	KRA569U		$V_O=-0.3V, I_O=-20mA$	-	-1.76	-2.5	
	KRA570U		$V_O=-0.3V, I_O=-2mA$	-	-2	-3	
	KRA571U		$V_O=-0.3V, I_O=-2mA$	-	-3.9	-5	
	KRA572U		$V_O=-0.3V, I_O=-1mA$	-	-1.64	-3	
Input Voltage (OFF)	KRA566U	$V_{I(OFF)}$	$V_{CC}=-5V, I_O=-100\mu A$	-0.3	-0.63	-	V
	KRA567U			-0.5	-1.15	-	
	KRA568U			-0.3	-0.67	-	
	KRA569U			-0.3	-0.82	-	
	KRA570U			-0.8	-1.68	-	
	KRA571U			-1	-3.09	-	
	KRA572U			-0.5	-1.17	-	
Transition Frequency	KRA566U 572U	f_T^*	$V_O=-10V, I_O=-5mA$	-	250	-	MHz
Input Current	KRA566U	I_I	$V_I=-5V$	-	-	-7.2	mA
	KRA567U			-	-	-3.8	
	KRA568U			-	-	-3.8	
	KRA569U			-	-	-1.8	
	KRA570U			-	-	-0.88	
	KRA571U			-	-	-0.16	
	KRA572U			-	-	-0.15	
Input Resistor	KRA566U	R1	-	0.7	1	1.3	kΩ
	KRA567U			1.54	2.2	2.86	
	KRA568U			1.54	2.2	2.86	
	KRA569U			3.29	4.7	6.11	
	KRA570U			7	10	13	
	KRA571U			32.9	47	61.1	
	KRA572U			70	100	130	
Resistor Ratio	KRA566U	R2/R1	-	8	10	12	
	KRA567U			0.8	1.0	1.2	
	KRA568U			3.6	4.5	5.5	
	KRA569U			1.7	2.1	2.6	
	KRA570U			0.37	0.47	0.57	
	KRA571U			0.17	0.21	0.26	
	KRA572U			0.8	1.0	1.2	

Note : * Characteristic of Transistor Only.

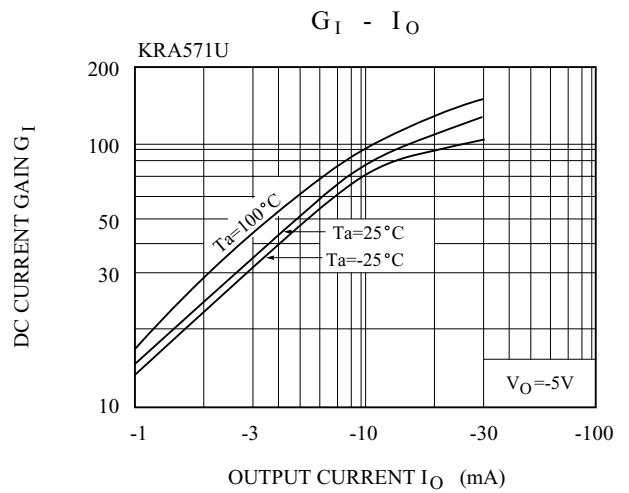
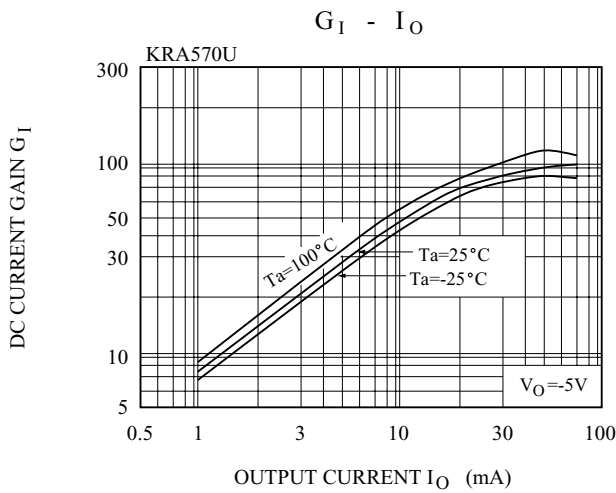
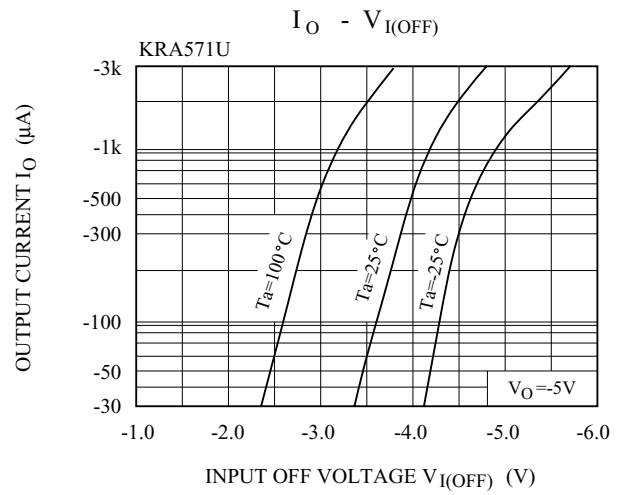
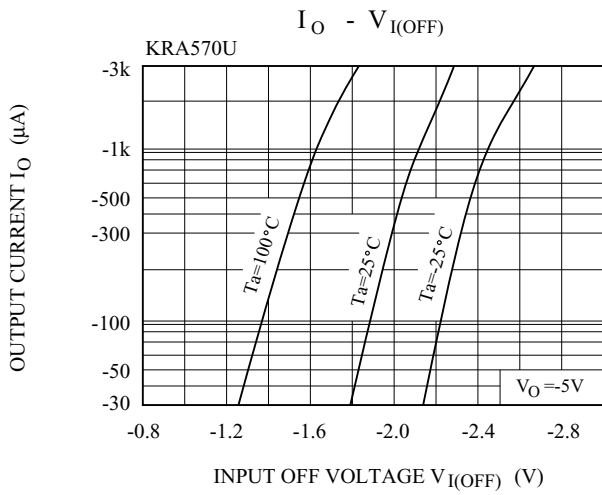
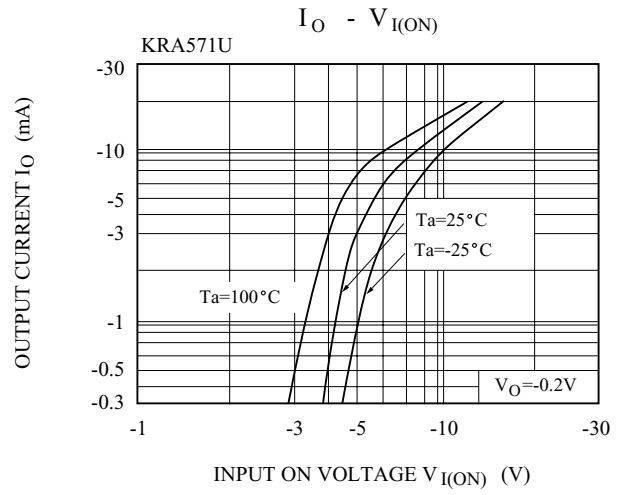
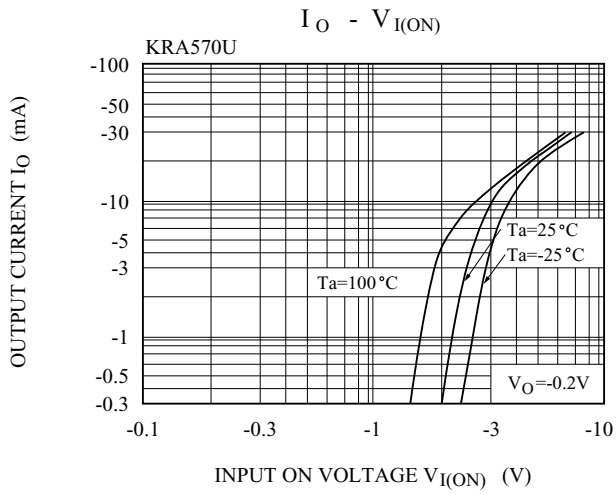
KRA566U-KRA572U



KRA566U-KRA572U



KRA566U-KRA572U



KRA566U-KRA572U

