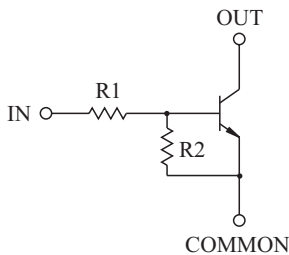


SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION

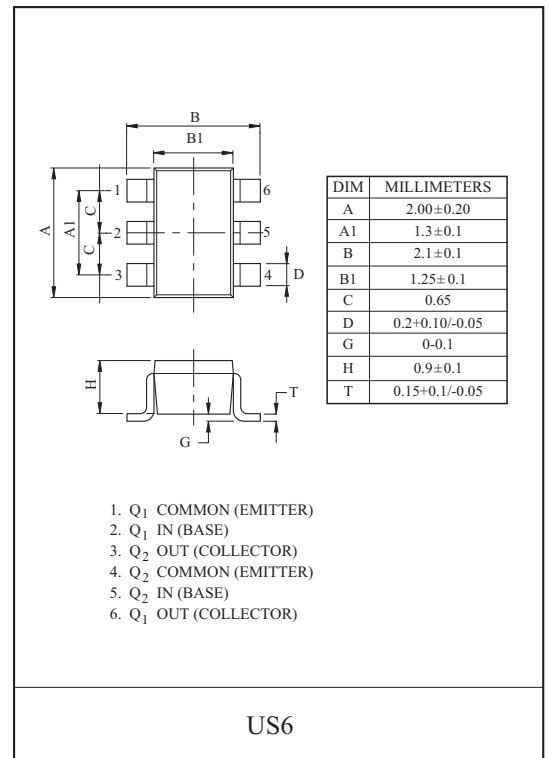
### FEATURES

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

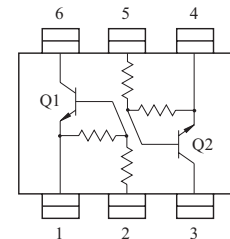
### EQUIVALENT CIRCUIT



TYPE NO.	R1(k Ω)	R2(k Ω)
KRC866U	1	10
KRC867U	2.2	2.2
KRC868U	2.2	10
KRC869U	4.7	10
KRC870U	10	4.7
KRC871U	47	10
KRC872U	100	100



### EQUIVALENT CIRCUIT (TOP VIEW)



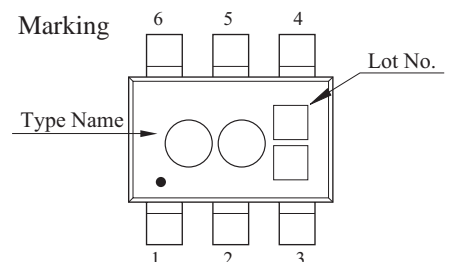
### MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC866U~872U	$V_O$	50	V
Input Voltage	KRC866U	$V_I$	10, -5	V
	KRC867U		12, -10	
	KRC868U		12, -5	
	KRC869U		20, -7	
	KRC870U		30, -10	
	KRC871U		40, -15	
	KRC872U		40, -10	
Output Current	KRC866U~872U	$I_O$	100	mA
Power Dissipation		$P_D^*$	200	mW
Junction Temperature		$T_j$	150	℃
Storage Temperature Range		$T_{stg}$	-55 ~ 150	℃

\* Total Rating.

### MARK SPEC

TYPE	KRC866U	KRC867U	KRC868U	KRC869U	KRC870U	KRC871U	KRC872U
MARK	N2	N4	N5	N6	N7	N8	N9



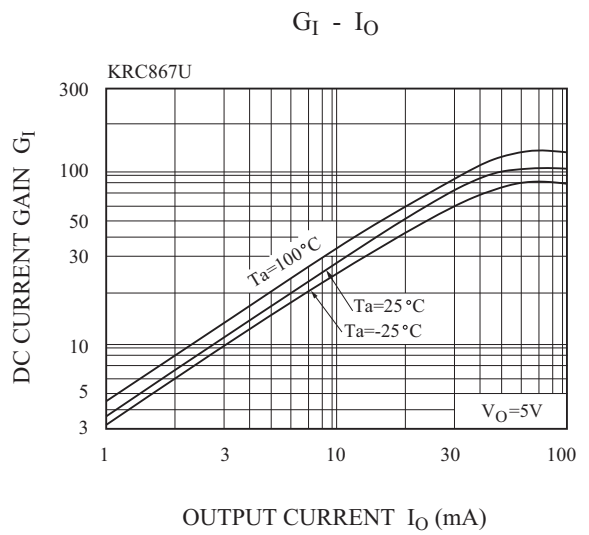
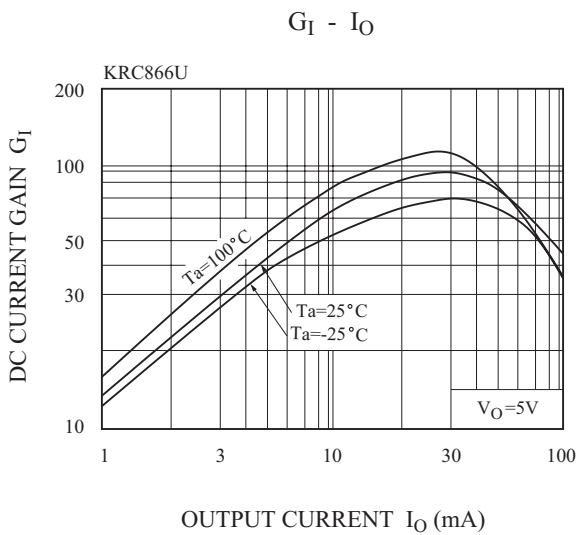
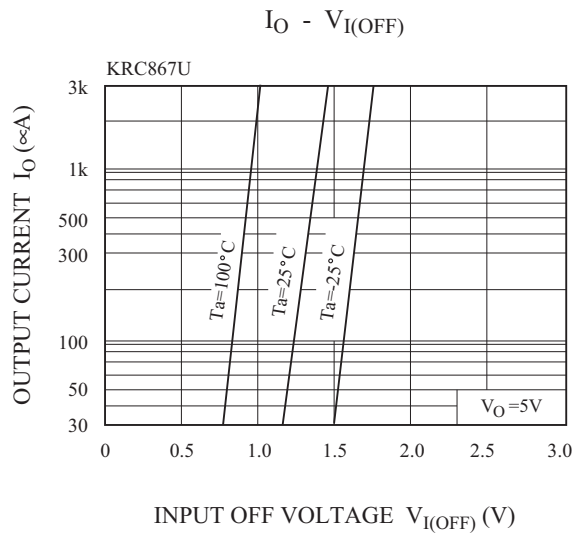
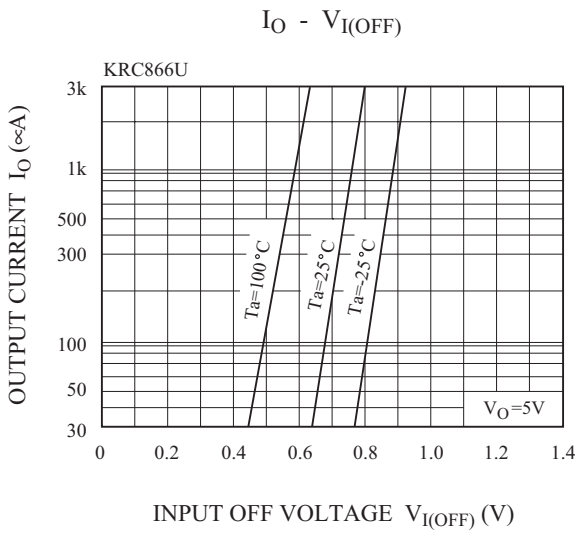
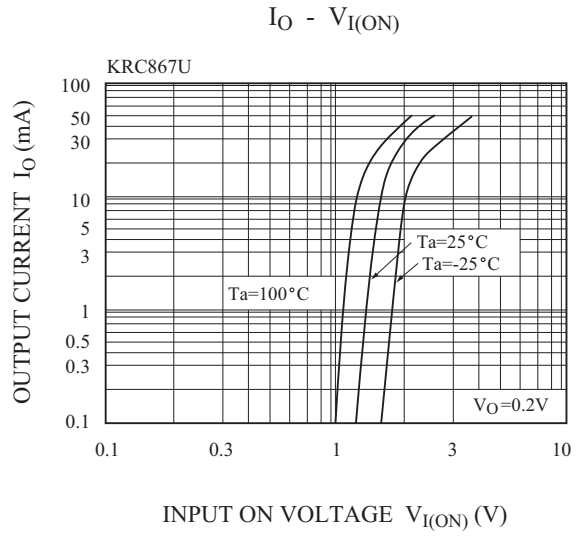
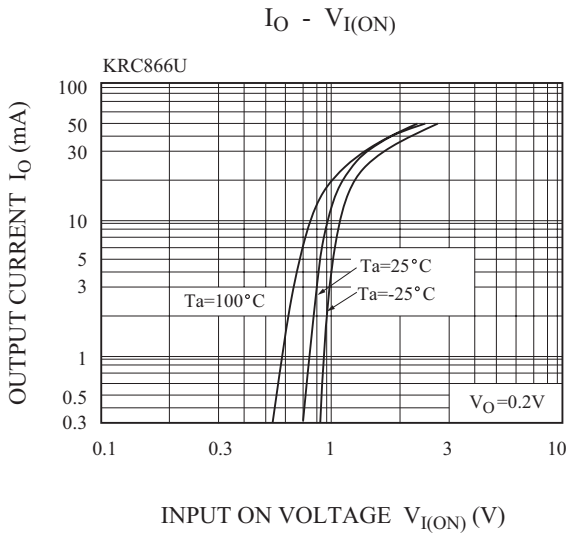
# KRC866U~KRC872U

## ELECTRICAL CHARACTERISTICS (Ta=25 °C)

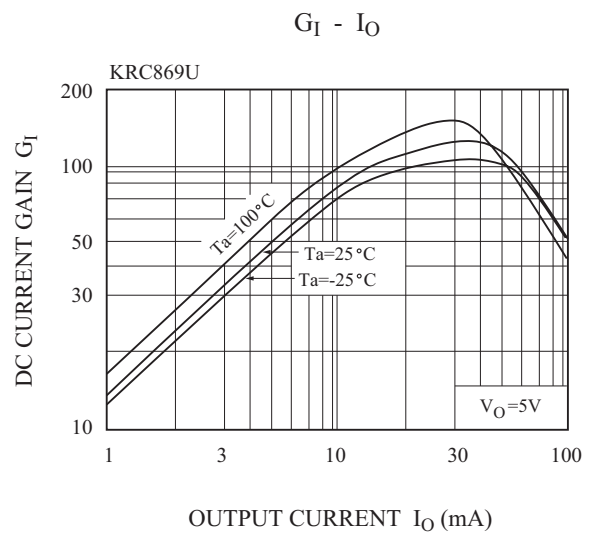
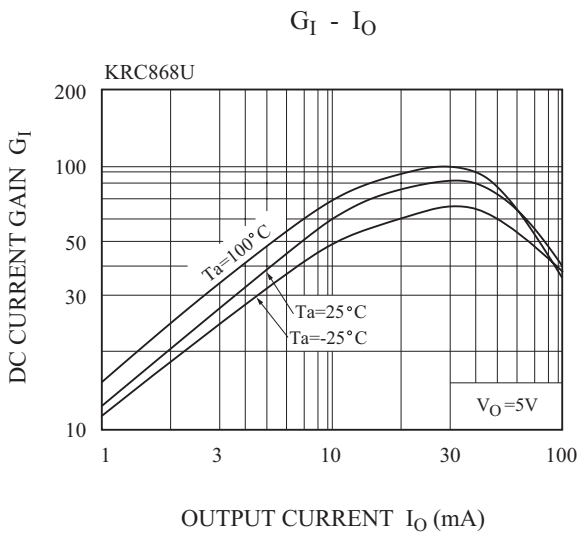
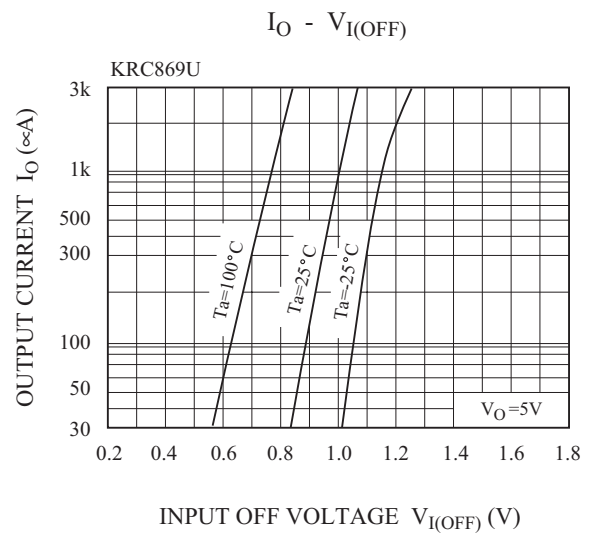
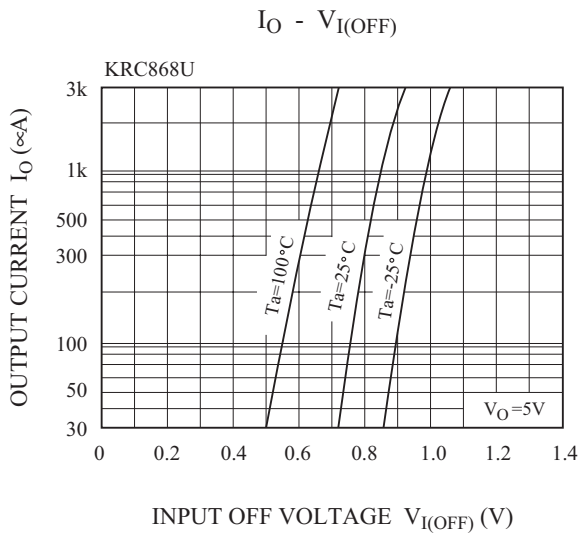
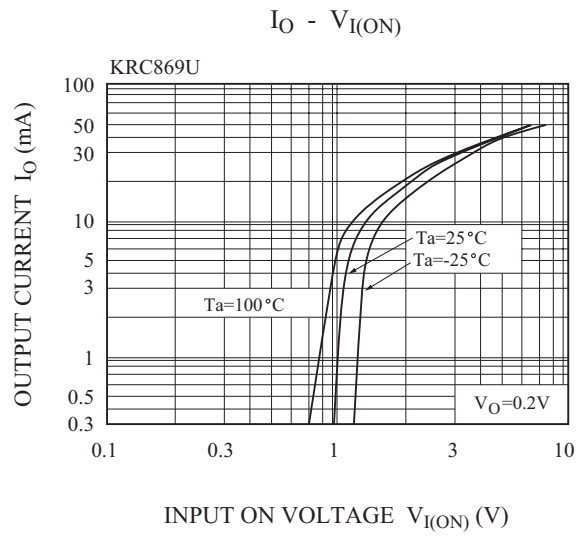
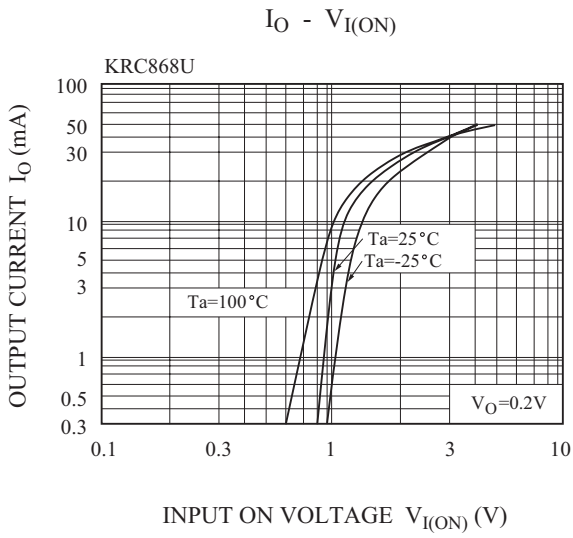
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC866U~872U	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA
DC Current Gain	KRC866U	$G_I$	$V_O=5V, I_O=5mA$	33	-	-	
	KRC867U		$V_O=5V, I_O=20mA$	20	-	-	
	KRC868U		$V_O=5V, I_O=10mA$	33	-	-	
	KRC869U		$V_O=5V, I_O=10mA$	30	-	-	
	KRC870U		$V_O=5V, I_O=10mA$	24	-	-	
	KRC871U		$V_O=5V, I_O=5mA$	33	-	-	
	KRC872U		$V_O=5V, I_O=5mA$	62	-	-	
Output Voltage	KRC866U	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	-	0.3	V
	KRC867U		$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	
	KRC868U		$I_O=10mA, I_I=0.5mA$	-	-	0.3	
	KRC869U		$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	
	KRC870U		$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	
	KRC871U		$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	
	KRC872U		$I_O=5mA, I_I=0.25mA$	-	0.1	0.3	
Input Voltage (ON)	KRC866U	$V_{I(ON)}$	$V_O=0.3V, I_O=20mA$	-	0.98	3	V
	KRC867U		$V_O=0.3V, I_O=20mA$	-	1.83	3	
	KRC868U		$V_O=0.3V, I_O=20mA$	-	1.22	3	
	KRC869U		$V_O=0.3V, I_O=20mA$	-	1.76	2.5	
	KRC870U		$V_O=0.3V, I_O=2mA$	-	2	3	
	KRC871U		$V_O=0.3V, I_O=2mA$	-	3.9	5	
	KRC872U		$V_O=0.3V, I_O=1mA$	-	1.64	3	
Input Voltage (OFF)	KRC866U	$V_{I(OFF)}$	$V_{CC}=5V, I_O=100\mu A$	0.3	0.63	-	V
	KRC867U			0.5	1.15	-	
	KRC868U			0.3	0.67	-	
	KRC869U			0.3	0.82	-	
	KRC870U			0.8	1.68	-	
	KRC871U			1	3.09	-	
	KRC872U			0.5	1.17	-	
Transition Frequency	KRC866U~872U	$f_T^*$	$V_O=10V, I_O=5mA$	-	250	-	MHz
Input Current	KRC866U	$I_I$	$V_I=5V$	-	-	7.2	mA
	KRC867U			-	-	3.8	
	KRC868U			-	-	3.8	
	KRC869U			-	-	1.8	
	KRC870U			-	-	0.88	
	KRC871U			-	-	0.16	
	KRC872U			-	-	0.15	

Note : \* Characteristic of Transistor Only.

# KRC866U~KRC872U

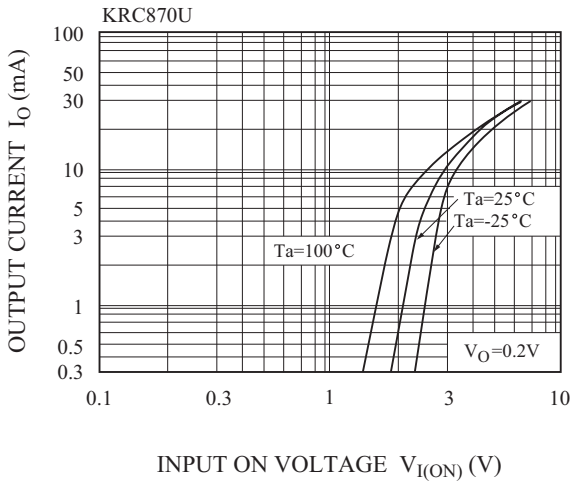


# KRC866U~KRC872U

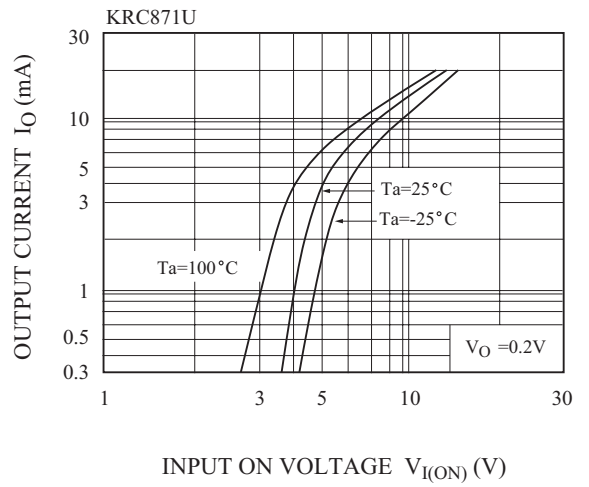


# KRC866U~KRC872U

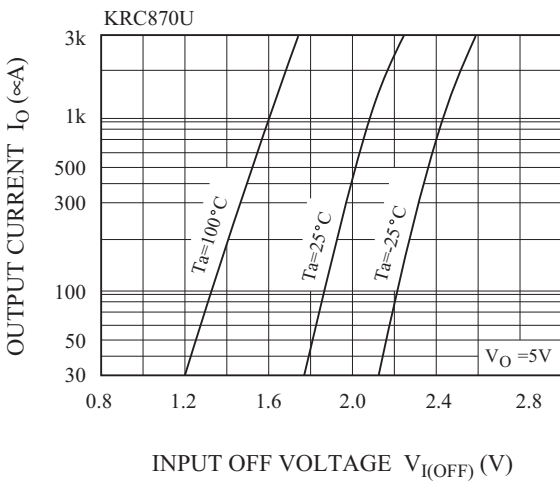
$I_O - V_{I(ON)}$



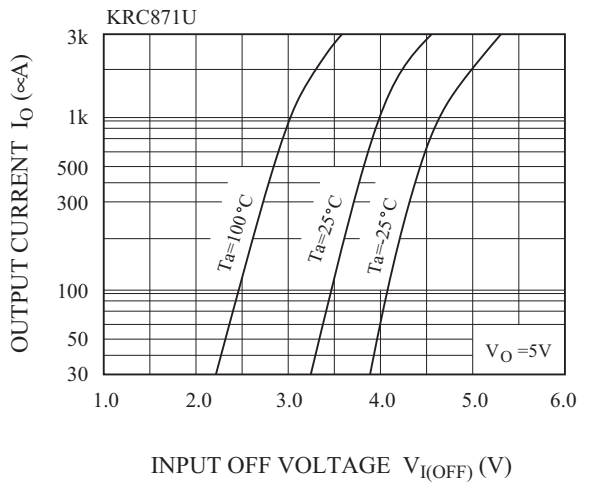
$I_O - V_{I(ON)}$



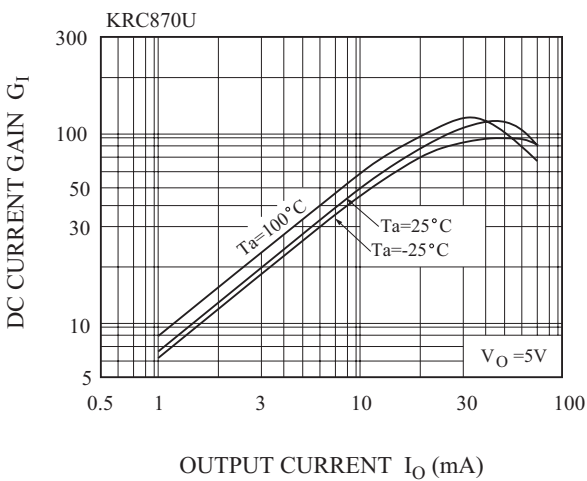
$I_O - V_{I(OFF)}$



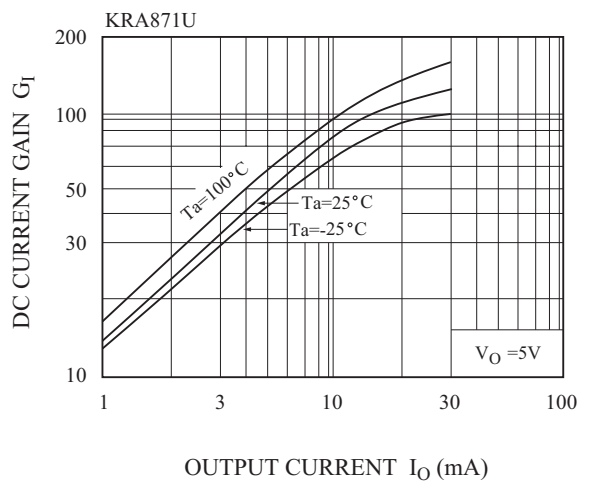
$I_O - V_{I(OFF)}$



$G_I - I_O$

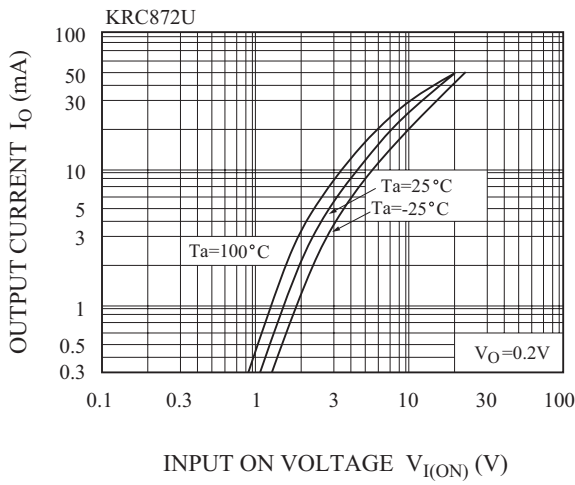


$G_I - I_O$

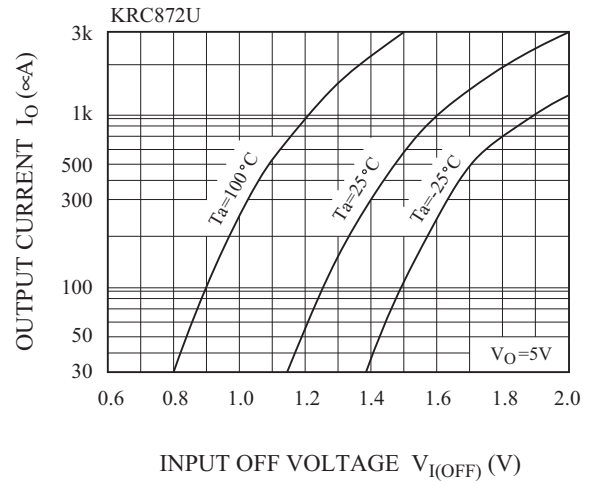


# KRC866U~KRC872U

$I_O - V_{I(ON)}$



$I_O - V_{I(OFF)}$



$G_I - I_O$

