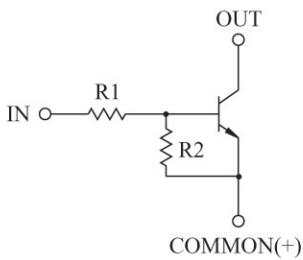


SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION

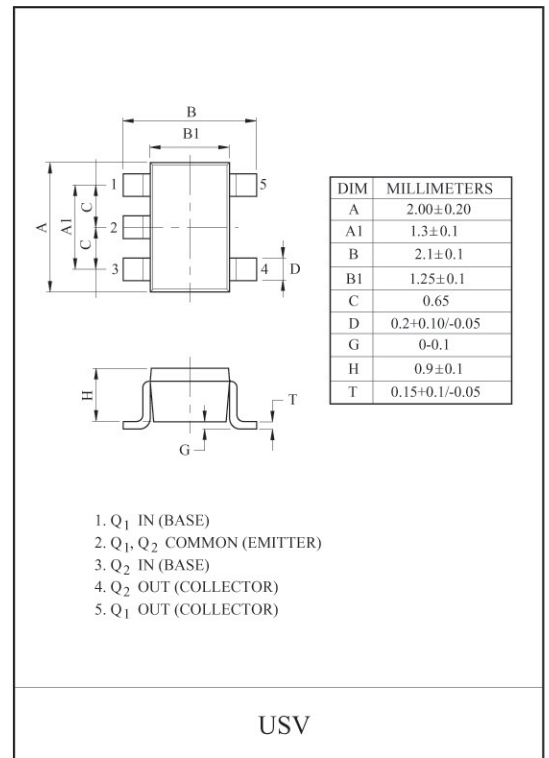
### FEATURES

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

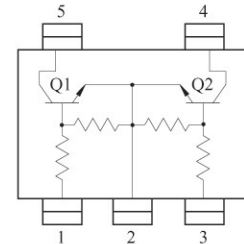
### EQUIVALENT CIRCUIT



TYPE NO.	R1(kΩ)	R2(kΩ)
KRC666U	1	10
KRC667U	2.2	2.2
KRC668U	2.2	10
KRC669U	4.7	10
KRC670U	10	4.7
KRC671U	47	10
KRC672U	100	100



EQUIVALENT CIRCUIT (TOP VIEW)

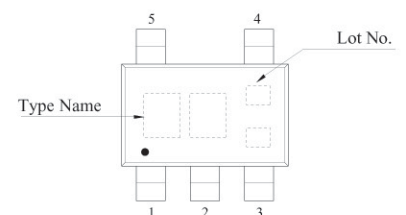


### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC666U 672U	$V_o$	50	V
Input Voltage	KRC666U	$V_i$	10, -5	V
	KRC667U		12, -10	
	KRC668U		12, -5	
	KRC669U		20, -7	
	KRC670U		30, -10	
	KRC671U		40, -15	
	KRC672U	40, -10		
Output Current	KRC666U~672U	$I_o$	100	mA
Power Dissipation		$P_D^*$	200	mW
Junction Temperature		$T_j$	150	°C
Storage Temperature Range		$T_{stg}$	-55 ~ 150	°C

\* Total Rating.

### Marking



### MARK SPEC

TYPE	KRC666U	KRC667U	KRC668U	KRC669U	KRC670U	KRC671U	KRC672U
MARK	N2	N4	N5	N6	N7	N8	N9

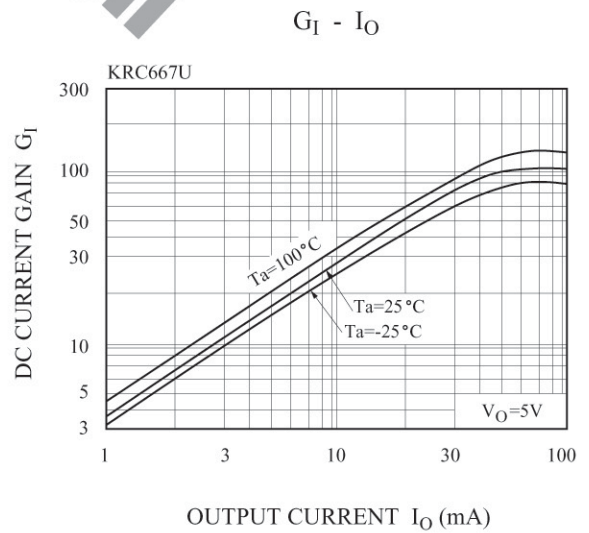
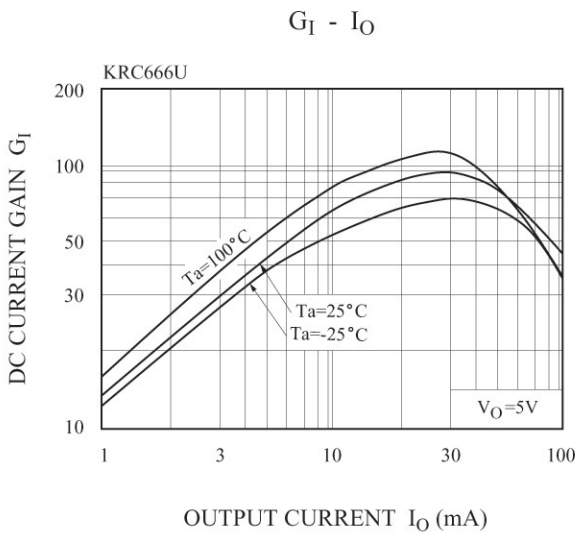
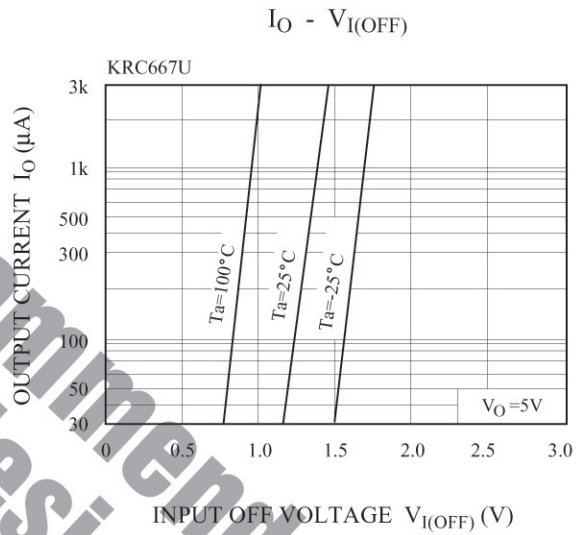
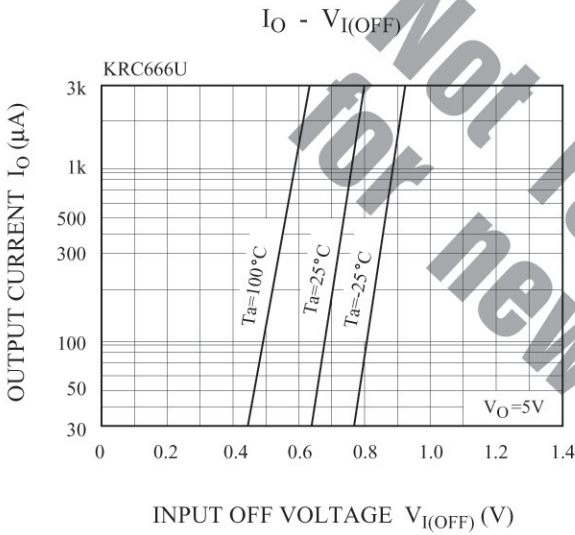
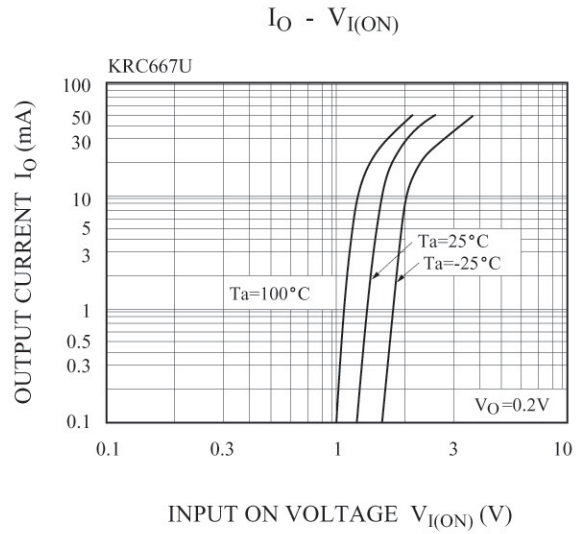
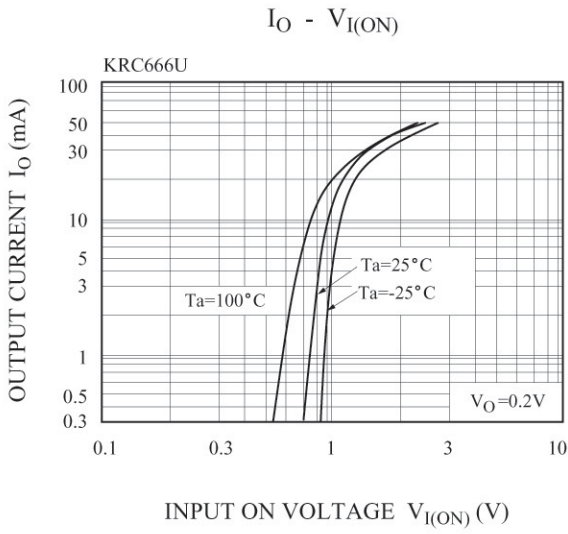
# KRC666U~KRC672U

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

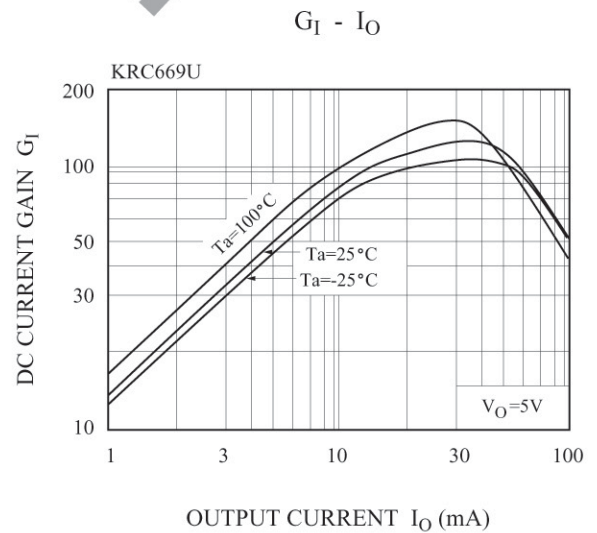
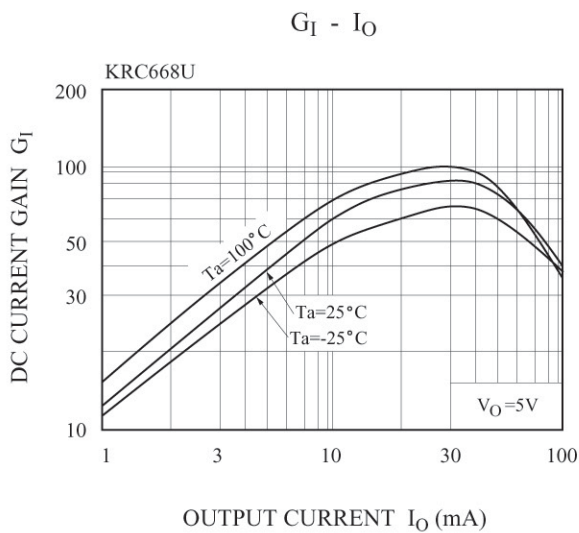
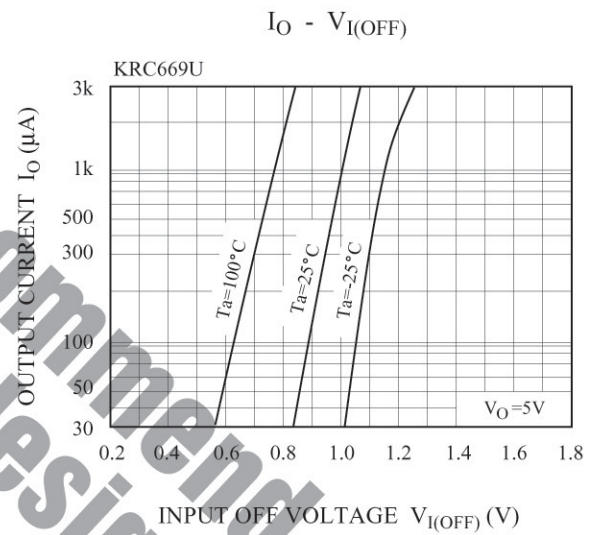
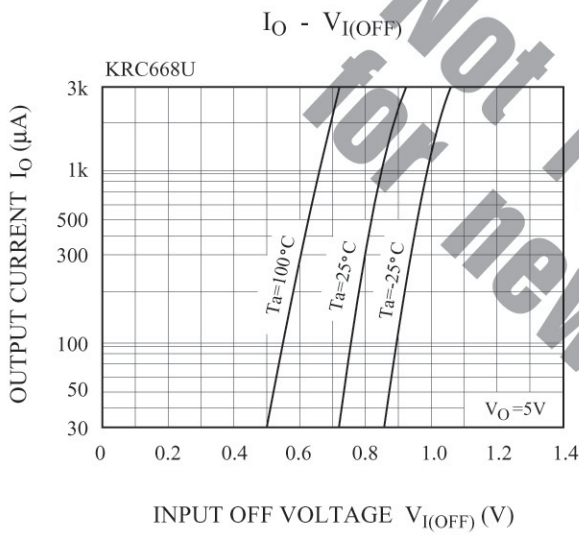
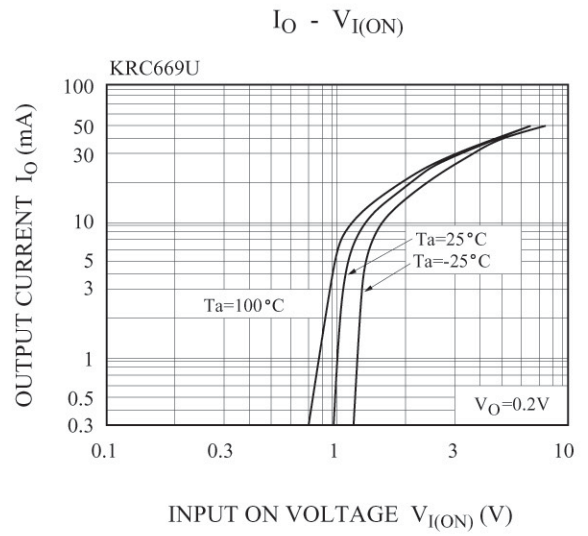
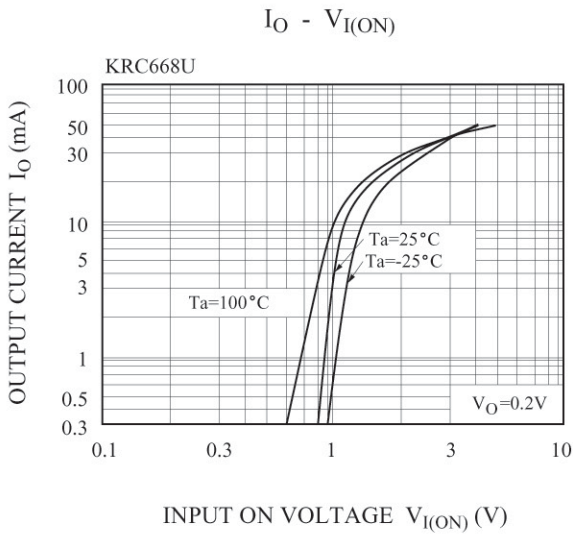
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC666U~672U	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA
DC Current Gain	KRC666U	$G_I$	$V_O=5V, I_O=5mA$	33	-	-	
	KRC667U		$V_O=5V, I_O=20mA$	20	-	-	
	KRC668U		$V_O=5V, I_O=10mA$	33	-	-	
	KRC669U		$V_O=5V, I_O=10mA$	30	-	-	
	KRC670U		$V_O=5V, I_O=10mA$	24	-	-	
	KRC671U		$V_O=5V, I_O=5mA$	33	-	-	
	KRC672U		$V_O=5V, I_O=5mA$	62	-	-	
	Output Voltage		KRC666U	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	
KRC667U		$I_O=10mA, I_I=0.5mA$	-		0.1	0.3	
KRC668U		$I_O=10mA, I_I=0.5mA$	-		-	0.3	
KRC669U		$I_O=10mA, I_I=0.5mA$	-		0.1	0.3	
KRC670U		$I_O=10mA, I_I=0.5mA$	-		0.1	0.3	
KRC671U		$I_O=10mA, I_I=0.5mA$	-		0.1	0.3	
KRC672U		$I_O=5mA, I_I=0.25mA$	-		0.1	0.3	
Input Voltage (ON)		KRC666U	$V_{I(ON)}$		$V_O=0.3V, I_O=20mA$	-	0.98
	KRC667U	$V_O=0.3V, I_O=20mA$		-	1.83	3	
	KRC668U	$V_O=0.3V, I_O=20mA$		-	1.22	3	
	KRC669U	$V_O=0.3V, I_O=20mA$		-	1.76	2.5	
	KRC670U	$V_O=0.3V, I_O=2mA$		-	2	3	
	KRC671U	$V_O=0.3V, I_O=2mA$		-	3.9	5	
	KRC672U	$V_O=0.3V, I_O=1mA$		-	1.64	3	
	Input Voltage (OFF)	KRC666U		$V_{I(OFF)}$	$V_{CC}=5V, I_O=100\mu A$	0.3	0.63
KRC667U		0.5	1.15			-	
KRC668U		0.3	0.67			-	
KRC669U		0.3	0.82			-	
KRC670U		0.8	1.68			-	
KRC671U		1	3.09			-	
KRC672U		0.5	1.17			-	
Transition Frequency		KRC666U~672U	$f_T^*$			$V_O=10V, I_O=5mA$	-
Input Current	KRC666U	$I_I$	$V_I=5V$	-	-	7.2	mA
	KRC667U			-	-	3.8	
	KRC668U			-	-	3.8	
	KRC669U			-	-	1.8	
	KRC670U			-	-	0.88	
	KRC671U			-	-	0.16	
	KRC672U			-	-	0.15	
	Input Resistor			KRC666U	R1	-	
KRC667U		1.54	2.2	2.86			
KRC668U		1.54	2.2	2.86			
KRC669U		3.29	4.7	6.11			
KRC670U		7	10	13			
KRC671U		32.9	47	61.1			
KRC672U		70	100	130			
Resistor Ratio		KRC666U	R2/R1	-			8
	KRC667U	0.8			1.0	1.2	
	KRC668U	3.6			4.5	5.5	
	KRC669U	1.7			2.1	2.6	
	KRC670U	0.37			0.47	0.57	
	KRC671U	0.17			0.21	0.26	
	KRC672U	0.8			1.0	1.2	

Note : \* Characteristic of Transistor Only.

# KRC666U~KRC672U

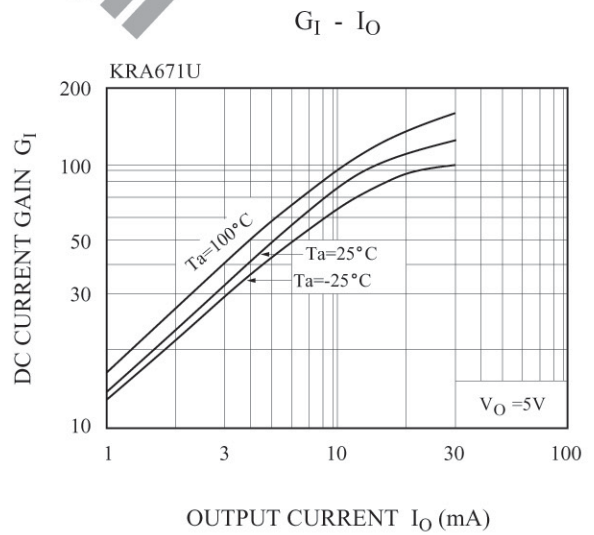
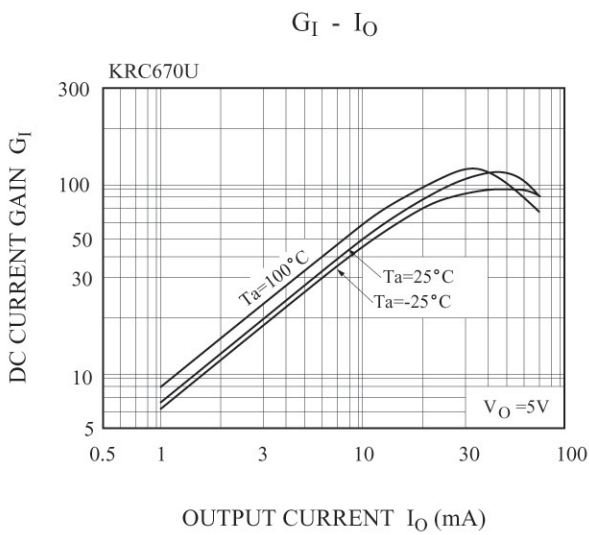
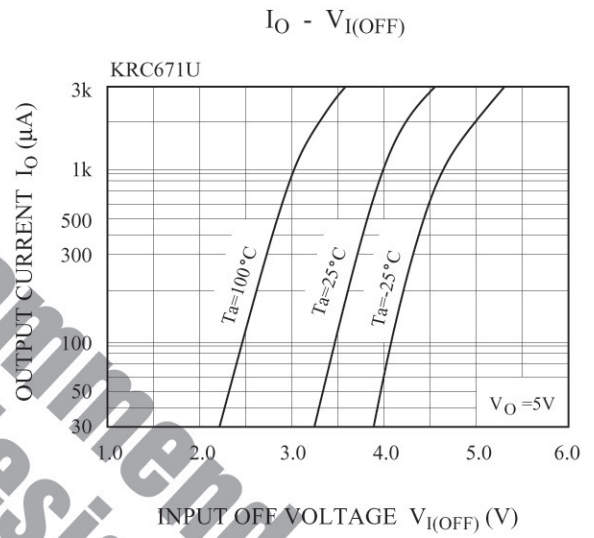
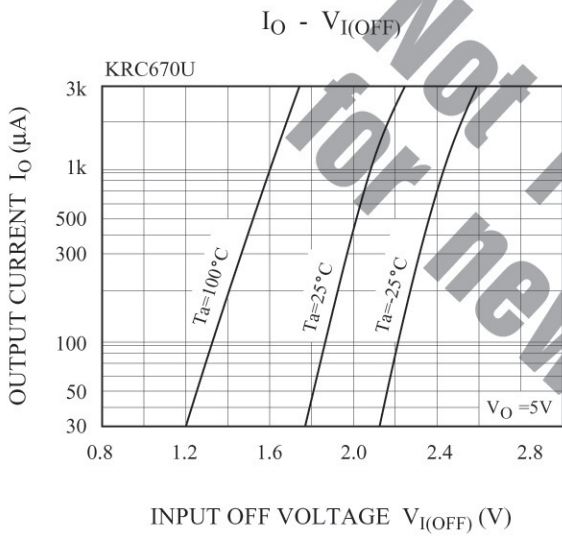
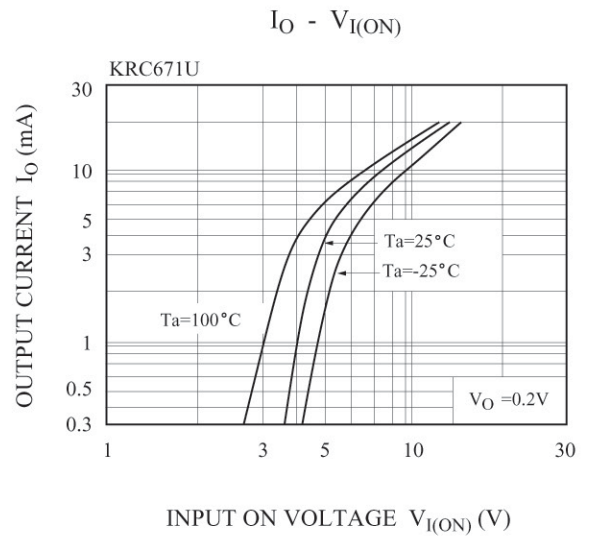
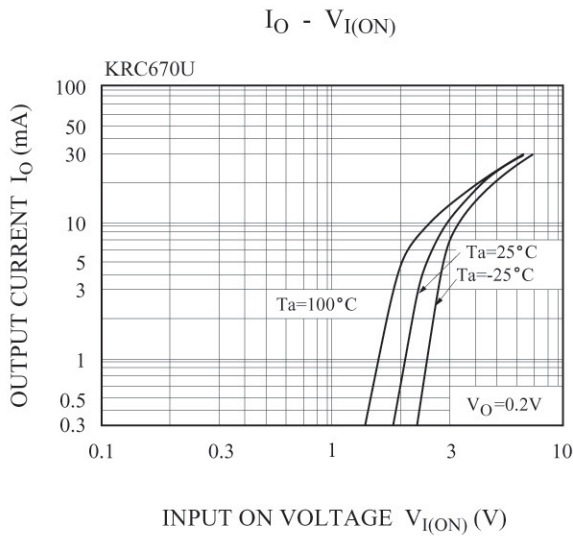


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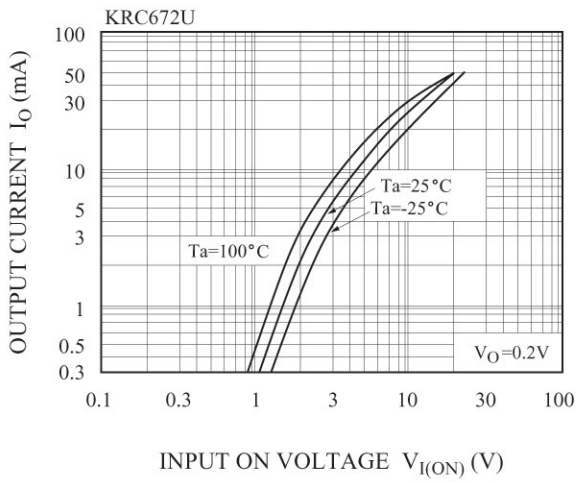


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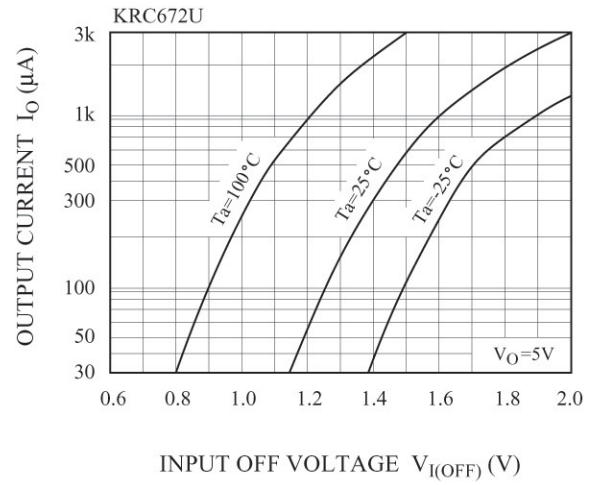


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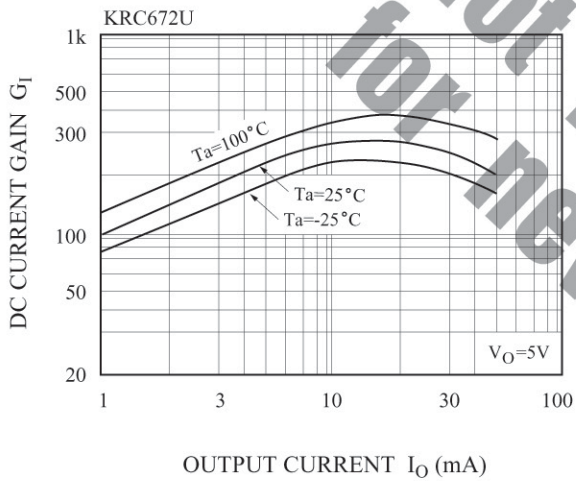
$I_O - V_{I(ON)}$



$I_O - V_{I(OFF)}$



$G_I - I_O$



Not recommend for new design