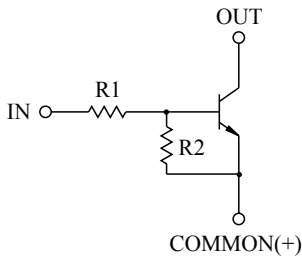


SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

### FEATURES

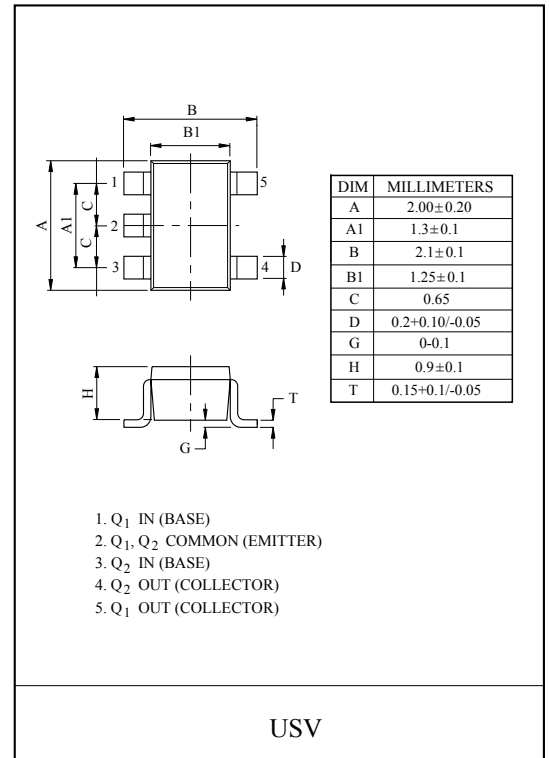
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.

### EQUIVALENT CIRCUIT

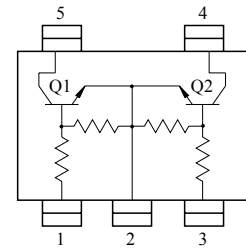


### BIAS RESISTOR VALUES

TYPE NO.	R1(kΩ)	R2(kΩ)
KRC651U	4.7	4.7
KRC652U	10	10
KRC653U	22	22
KRC654U	47	47
KRC655U	2.2	47
KRC656U	4.7	47



### EQUIVALENT CIRCUIT (TOP VIEW)



### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC651U ~ 656U	$V_O$	50	V
Input Voltage	KRC651U	$V_I$	20, -10	V
	KRC652U		30, -10	
	KRC653U		40, -10	
	KRC654U		40, -10	
	KRC655U		12, -5	
	KRC656U		20, -5	
Output Current	KRC651U ~ 656U	$I_O$	100	mA
Power Dissipation		$P_D^*$	200	mW
Junction Temperature		$T_j$	150	°C
Storage Temperature Range		$T_{stg}$	-55 ~ 150	°C

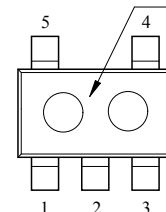
\* Total Rating.

### Marking

Type Name

### MARK SPEC

TYPE	KRC651U	KRC652U	KRC653U	KRC654U	KRC655U	KRC656U
MARK	NA	NB	NC	ND	NE	NF



# KRC651U~KRC656U

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC651U~656U	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA
DC Current Gain	KRC651U	$G_I$	$V_O=5V, I_O=10mA$	30	55	-	
	KRC652U			50	80	-	
	KRC653U			70	120	-	
	KRC654U			80	200	-	
	KRC655U			80	200	-	
	KRC656U			80	200	-	
Output Voltage	KRC651U~656U	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	V
Input Voltage (ON)	KRC651U	$V_{I(ON)}$	$V_O=0.2V, I_O=5mA$	-	1.5	2.0	V
	KRC652U			-	1.8	2.4	
	KRC653U			-	2.1	3.0	
	KRC654U			-	2.8	5.0	
	KRC655U			-	0.8	1.1	
	KRC656U			-	0.9	1.3	
Input Voltage (OFF)	KRC651U~654U	$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	1.0	1.2	-	V
	KRC655U~656U			0.5	0.65	-	
Transition Frequency	KRC651U~656U	$f_T^*$	$V_O=10V, I_O=5mA$	-	200	-	MHz
Input Current	KRC651U	$I_I$	$V_I=5V$	-	-	1.8	mA
	KRC652U			-	-	0.88	
	KRC653U			-	-	0.36	
	KRC654U			-	-	0.18	
	KRC655U			-	-	3.6	
	KRC656U			-	-	1.8	

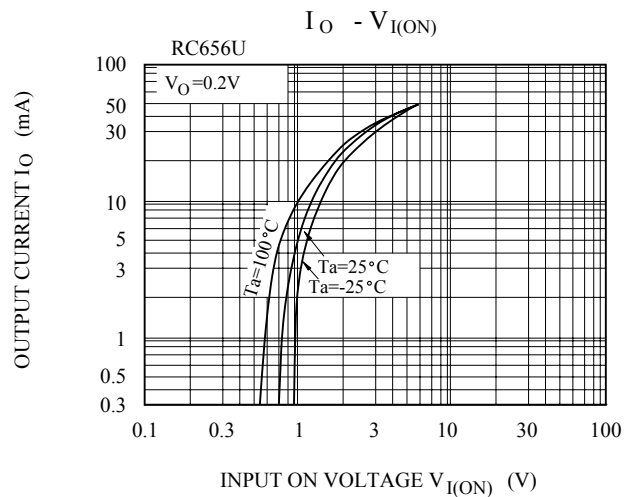
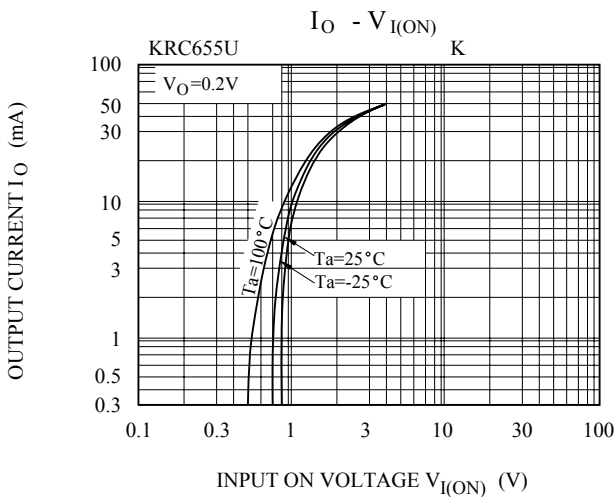
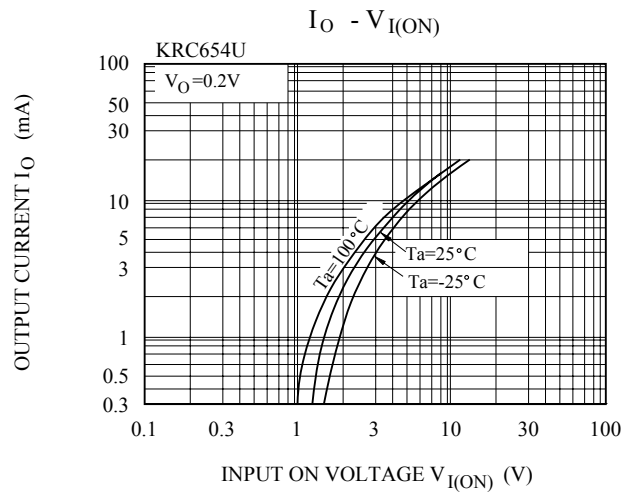
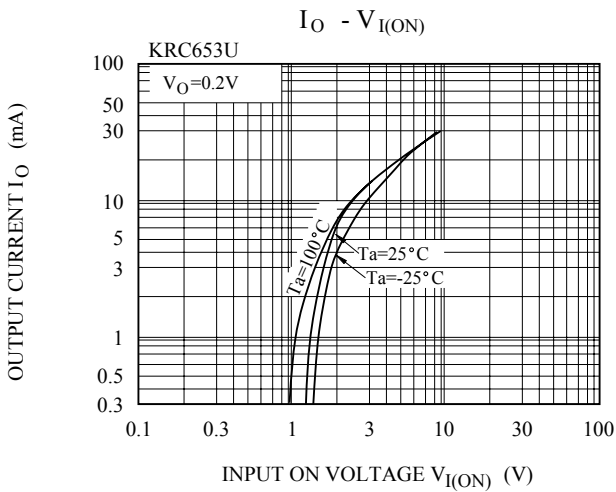
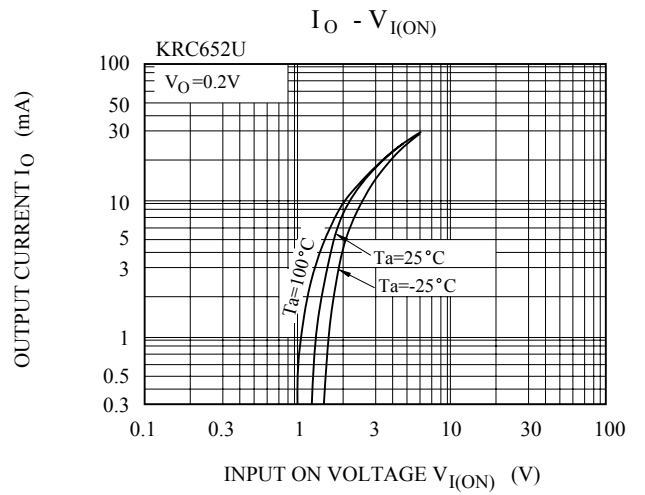
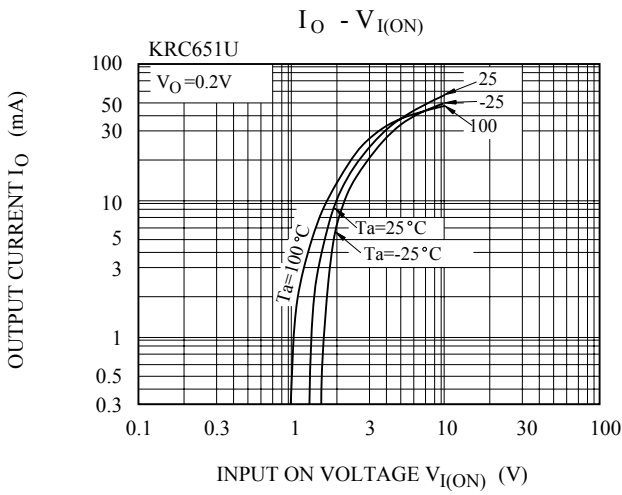
Note : \* Characteristic of Transistor Only.

# KRC651U~KRC656U

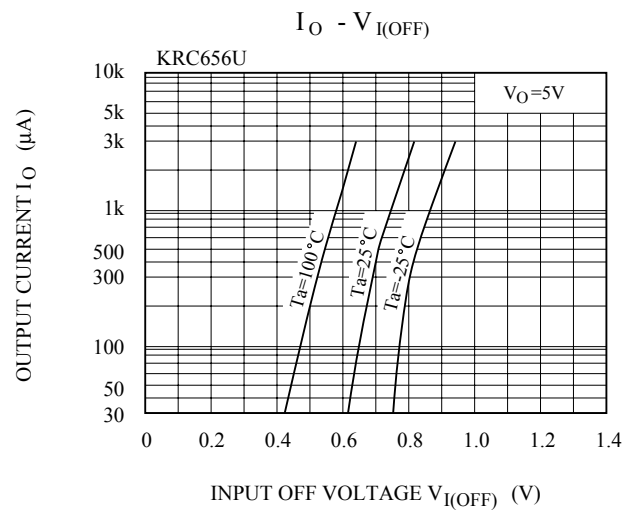
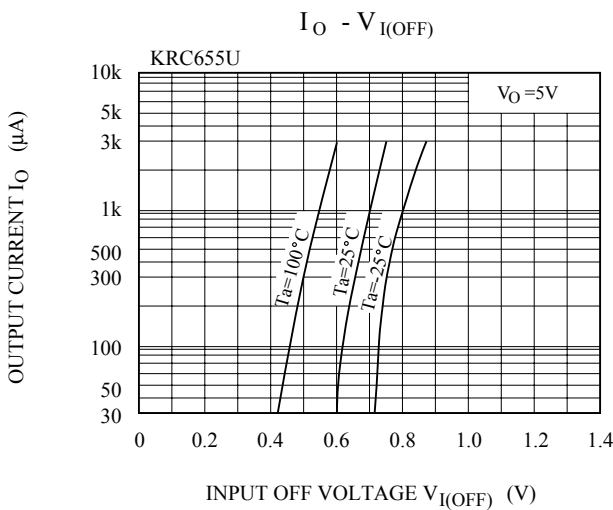
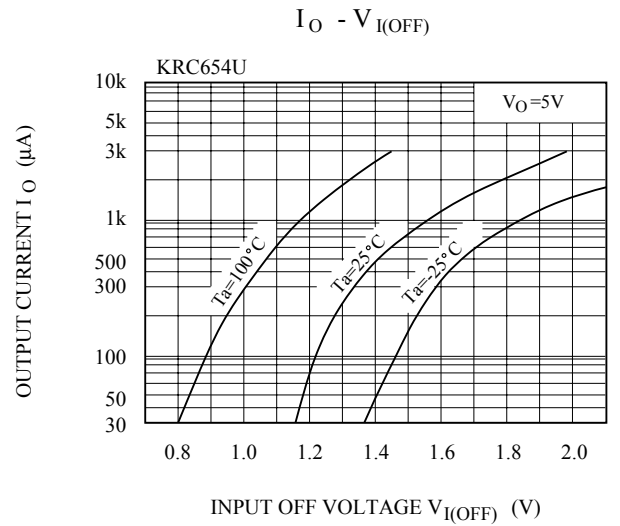
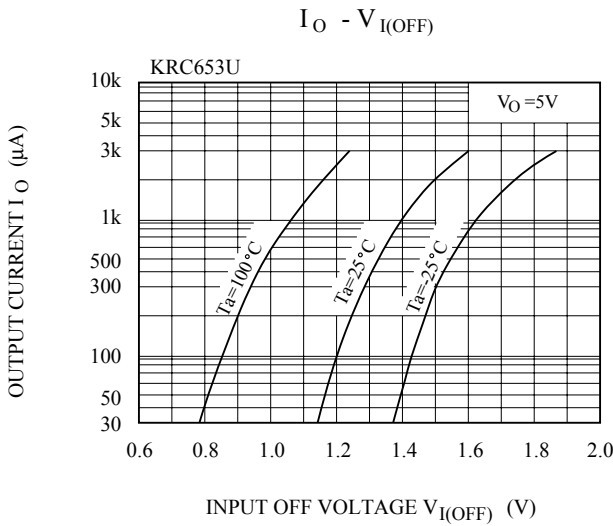
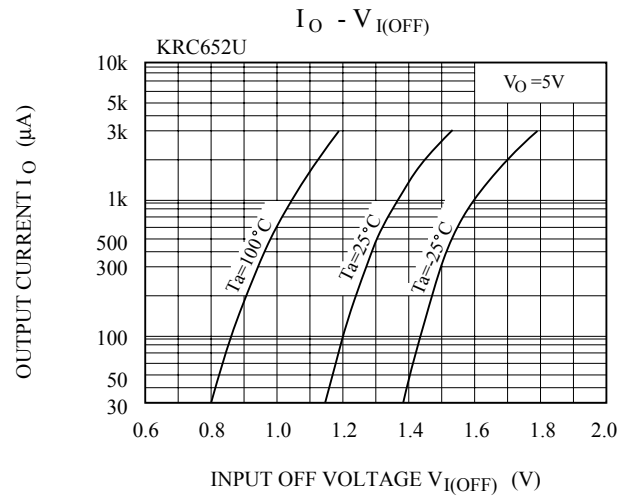
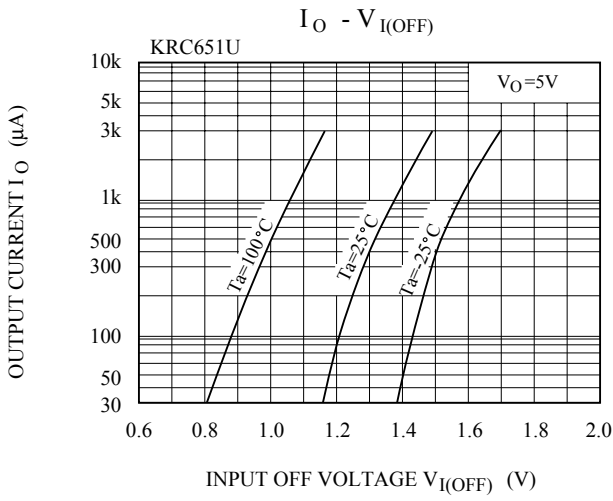
## ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRC651U	V <sub>O</sub> =5V V <sub>IN</sub> =5V R <sub>L</sub> =1kΩ	-	0.03	-	μS
		KRC652U		-	0.05	-	
		KRC653U		-	0.12	-	
		KRC654U		-	0.22	-	
		KRC655U		-	0.01	-	
		KRC656U		-	0.03	-	
	Storage Time	KRC651U		-	2.0	-	
		KRC652U		-	2.0	-	
		KRC653U		-	2.0	-	
		KRC654U		-	2.0	-	
		KRC655U		-	2.0	-	
		KRC656U		-	2.0	-	
	Fall Time	KRC651U		-	0.12	-	
		KRC652U		-	0.36	-	
		KRC653U		-	0.35	-	
		KRC654U		-	0.6	-	
		KRC655U		-	0.1	-	
		KRC656U		-	0.19	-	

# KRC651U~KRC656U



# KRC651U~KRC656U



# KRC651U~KRC656U

