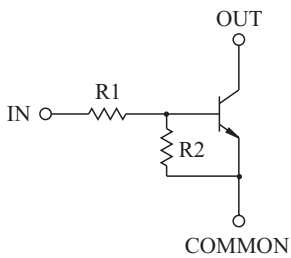


SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

### FEATURES

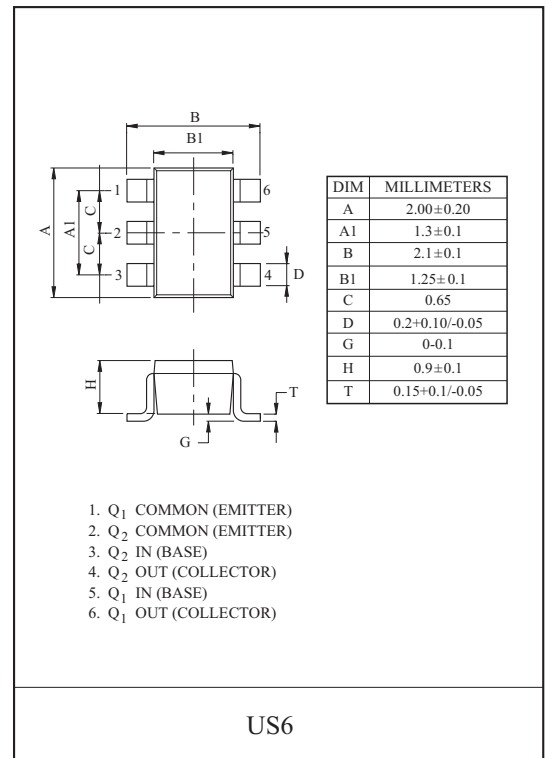
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.

### EQUIVALENT CIRCUIT

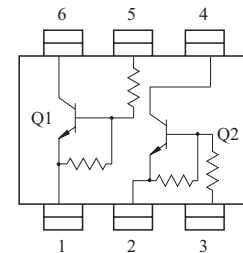


### BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRC827U	10	47
KRC828U	22	47
KRC829U	47	22



### EQUIVALENT CIRCUIT (TOP VIEW)



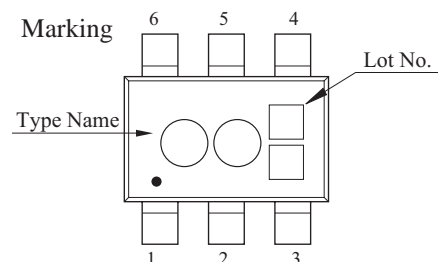
### MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC827U ~829U	$V_O$	50	V
Input Voltage	KRC827U	$V_I$	30, -6	V
	KRC828U		40, -7	
	KRC829U		40, -15	
Output Current	KRC827U ~829U	$I_O$	100	mA
Power Dissipation		$P_D^*$	200	mW
Junction Temperature		$T_j$	150	°C
Storage Temperature Range		$T_{stg}$	-55 ~150	°C

\* Total Rating.

### MARK SPEC

TYPE	KRC827U	KRC828U	KRC829U
MARK	YH	YI	YJ



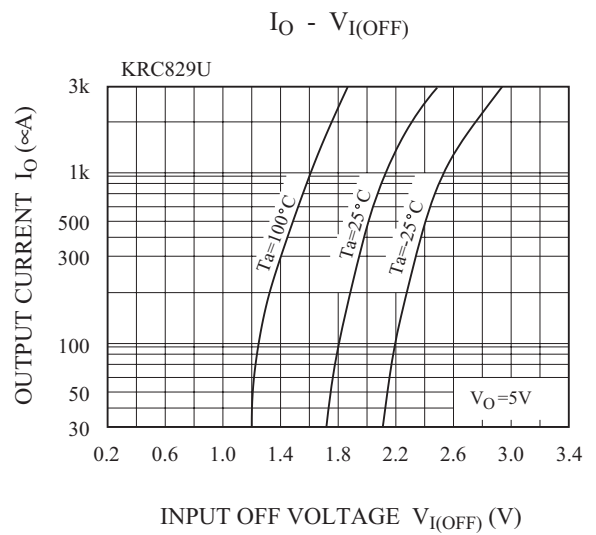
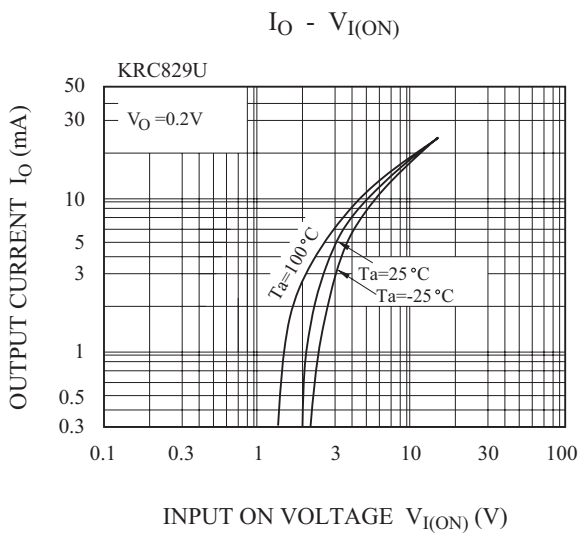
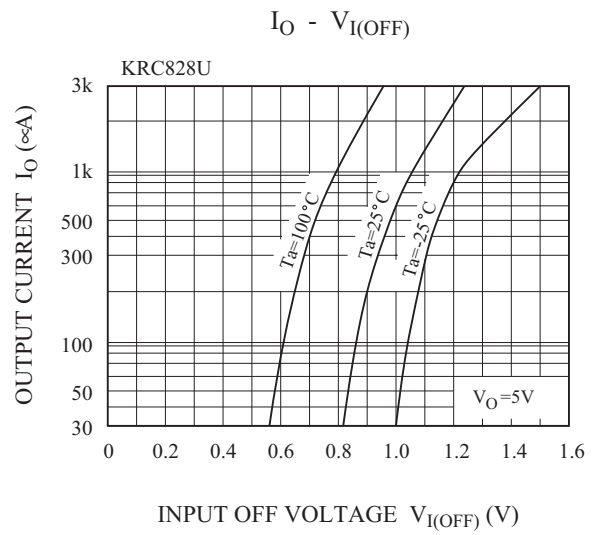
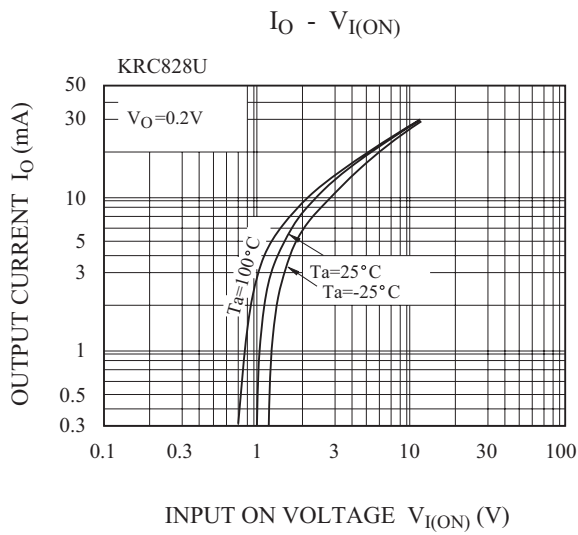
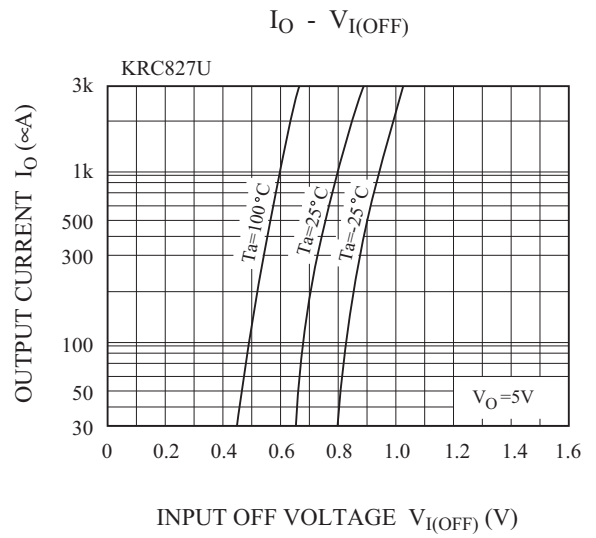
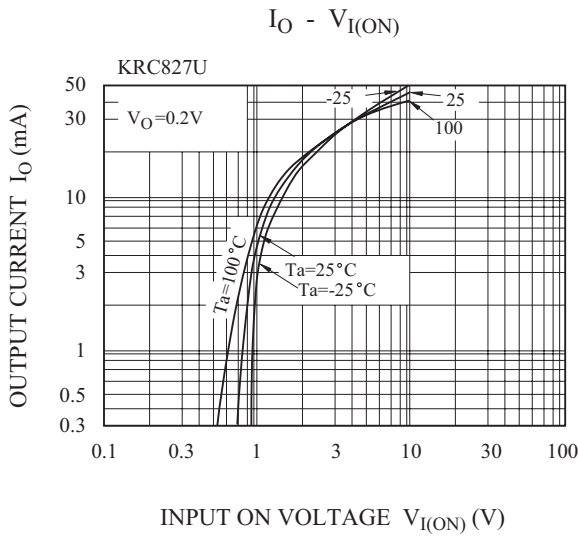
# KRC827U~KRC829U

## ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Output Cut-off Current	KRC827U ~829U	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA	
DC Current Gain	KRC827U	$G_I$	$V_O=5V, I_O=10mA$	80	150	-		
	KRC828U			80	150	-		
	KRC829U			70	140	-		
Output Voltage	KRC827U ~829U	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	V	
Input Voltage (ON)	KRC827U	$V_{I(ON)}$	$V_O=0.2V, I_O=5mA$	-	1.2	1.8	V	
	KRC828U			-	1.8	2.6		
	KRC829U			-	3.0	5.8		
Input Voltage (OFF)	KRC827U	$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	0.5	0.75	-	V	
	KRC828U			0.6	0.88	-		
	KRC829U			1.5	1.82	-		
Transition Frequency	KRC827U ~829U	$f_T^*$	$V_O=10V, I_O=5mA$	-	200	-	MHz	
Input Current	KRC827U	$I_I$	$V_I=5V$	-	-	0.88	mA	
	KRC828U			-	-	0.36		
	KRC829U			-	-	0.16		
Switching Time	Rise Time	KRC827U	$V_O=5V, V_{IN}=5V$ $R_L=1k \Omega$	-	0.05	-	$\mu S$	
		KRC828U		-	0.12	-		
		KRC829U		-	0.26	-		
	Storage Time	KRC827U		$t_{stg}$	-	2.0		-
		KRC828U			-	2.4		-
		KRC829U			-	1.5		-
	Fall Time	KRC827U		$t_f$	-	0.36		-
		KRC828U			-	0.4		-
		KRC829U			-	0.41		-

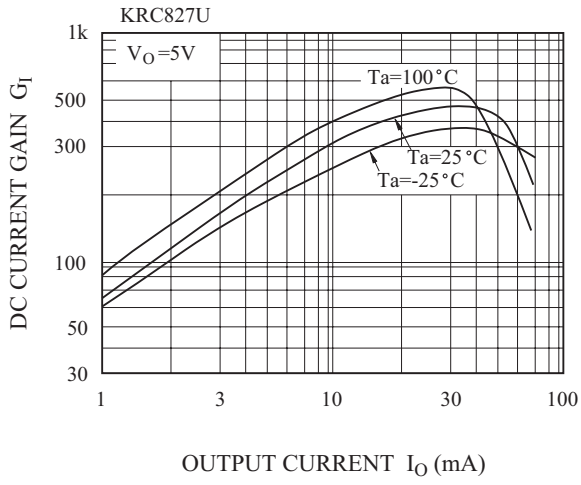
Note : \* Characteristic of Transistor Only.

# KRC827U~KRC829U

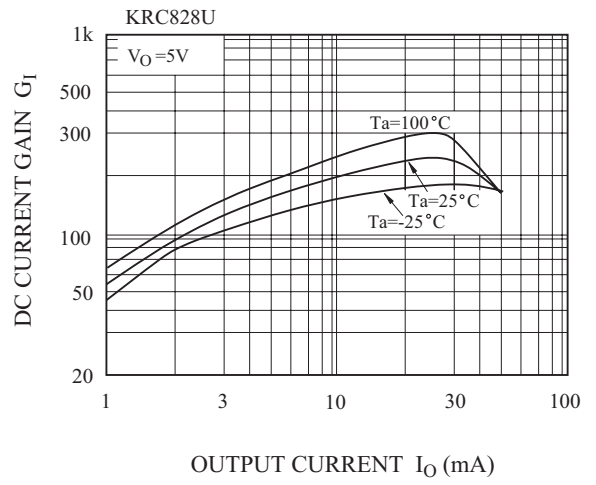


# KRC827U~KRC829U

$G_I - I_O$



$G_I - I_O$



$G_I - I_O$

