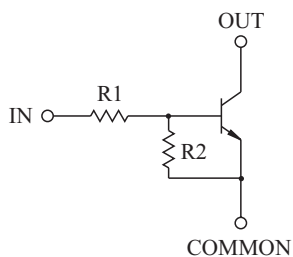


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

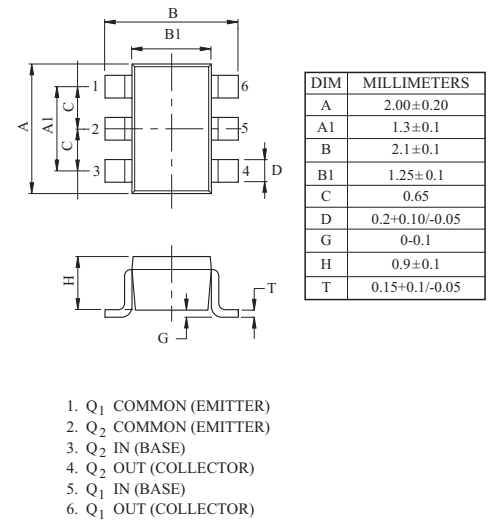
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.

EQUIVALENT CIRCUIT



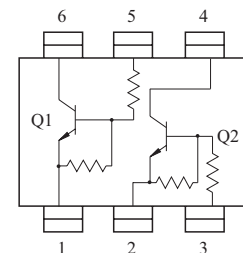
BIAS RESISTOR VALUES

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



US6

EQUIVALENT CIRCUIT (TOP VIEW)



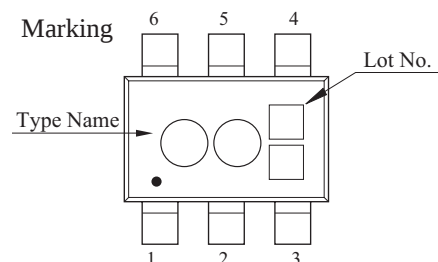
MAXIMUM RATING (Ta=25 °C)

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



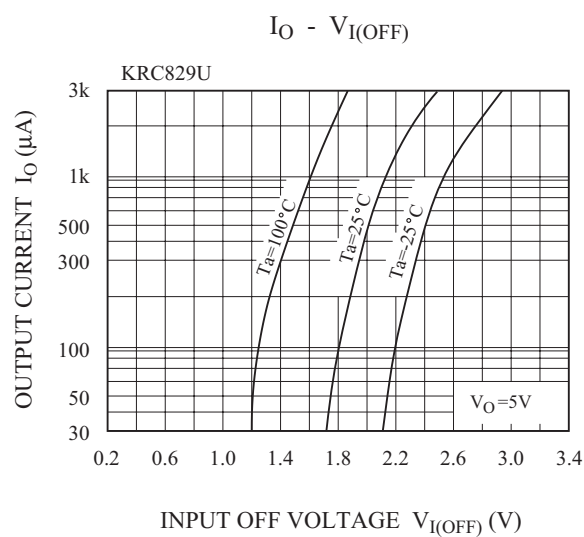
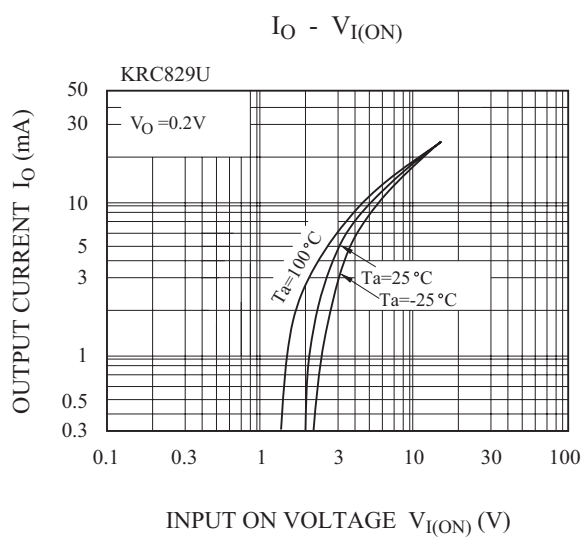
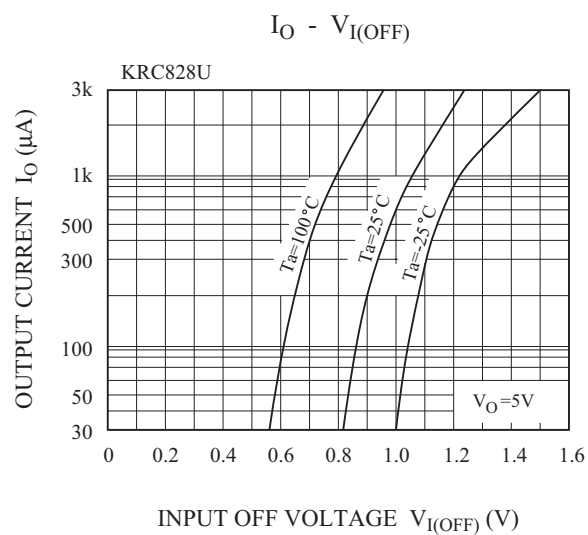
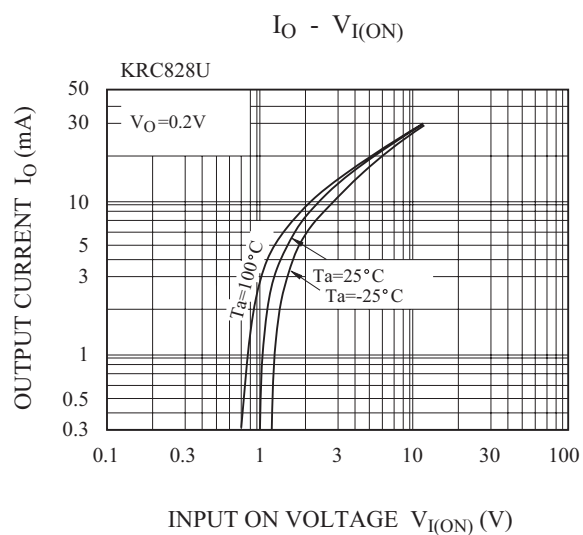
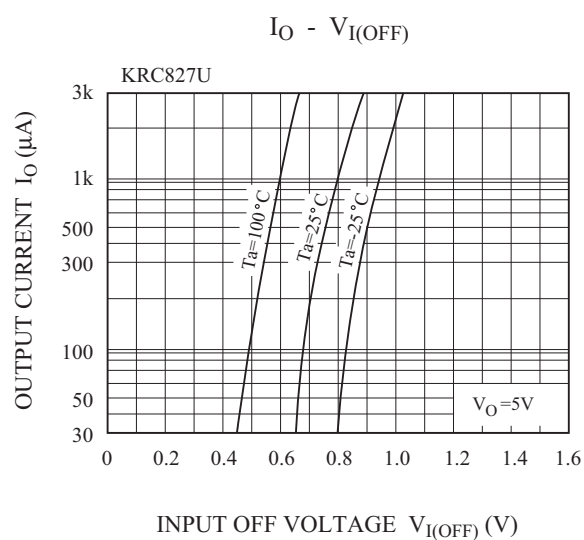
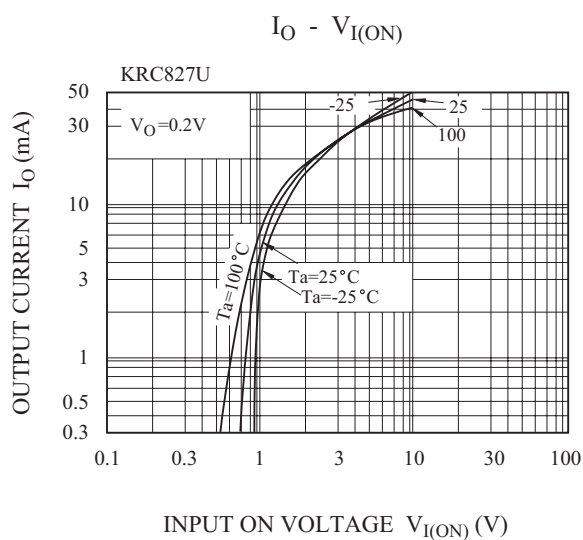
KRC827U~KRC829U

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	-	μS
		KRC828U		-	0.12	-	
		KRC829U		-	0.26	-	
	Storage Time	KRC827U		-	2.0	-	
		KRC828U		-	2.4	-	
		KRC829U		-	1.5	-	
	Fall Time	KRC827U		-	0.36	-	
		KRC828U		-	0.4	-	
		KRC829U		-	0.41	-	

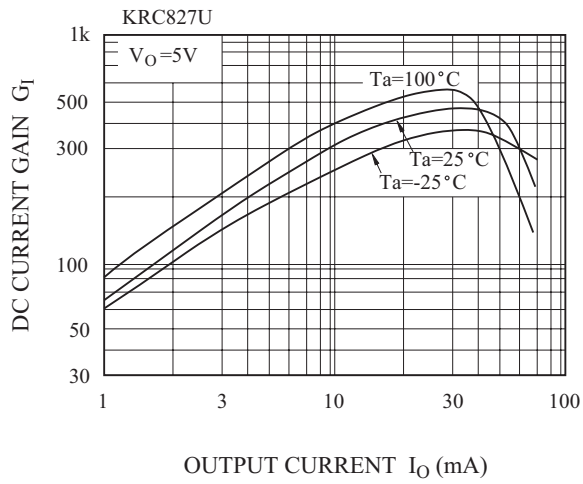
Note : * Characteristic of Transistor Only.

KRC827U~KRC829U

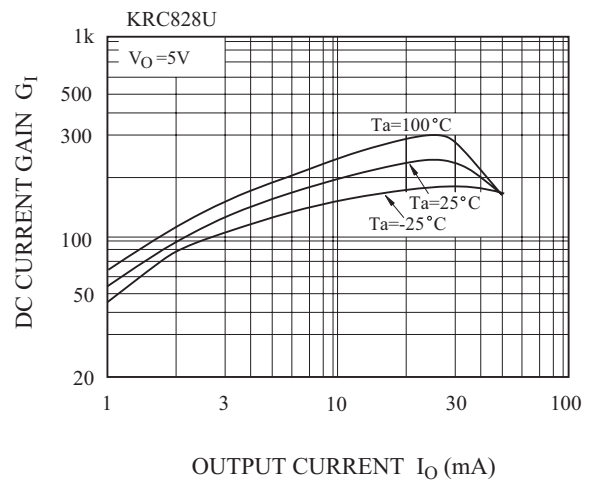


KRC827U~KRC829U

$G_I - I_O$



$G_I - I_O$



$G_I - I_O$

